## SIMPLIFIED SCIENTIFIC

## EPHEMERIS 1920 - 1929



## THE ROSICRUCIAN FELLOWSHIP

OCEANSIDE, CALIFORNIA, U.S.A.

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SIMPLIFIED SCIENTIFIC

## Ephemeris 1920-1929



## THE ROSICRUCIAN FELLOWSHIP

OCEANSIDE, CALIFORNIA, U.S.A.

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### EPHEMERIS OF PLUTO FOR 1920

Date	Long.	Dec.	Date	Long.	Dec.
January 15	6° 5 21'R	19° N 25′	July 13	7° ≤ 36′	19° N 41′
February 14	5° 55 51′	19° N 29'	August 12	8° 5 15'	19° N 39′
March 15			September 11	8° 5 43'	19° N 37′
April 14			October 11	8° 55 51′	19° N 35'
May 14	6° 5 12′	19° N 40′	November 10	8° 5 40'R	19° N 35′
June 13			December 10	8° 5 12′	19° N 38′

### A COMPLETE INDEX

of the

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Oceanside, California, U.S.A.

# SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES Calculated for Mean Noon at Greenwich January, 1920

January, 1920
New Moon January 21, at 5:27 A. M. in v3 29° 54'
Longitude of the Planets

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### SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES Calculated for Mean Noon at Greenwich January, 1920

January, 1920
Full Moon January 5th at 9:05 P. M. in 5 14° 15'
Declination of the Planets

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Th F S	21 22 23 24 25 26 27		6 10 14	20 19	7 54 41 27 12 58 43	21	15 23 30 36 42 47 52		27 16 4 51 36 20 3	2 11	48 19 16 50 47 23 46	9	13 14 16 17 19 20 22	17	13 15 18 20 23 25 27		3 12 20 29 37 45 53	12	10 9 8 7 6 5 4	17	36 37 38 38 38 39 40
Th	29 30	20 20	30	18 17 17	27 12 56 39	21 22 22		21 20 20	43 23 1 37	14 17 19 20	38 45 50 39	9	25 26	17 17	30 32 35 37	9	9	12 12	2	17 17	40 40 41 41

### SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES Calculated for Mean Noon at Greenwich

February, 1920 New Moon February 19th at 9:35 P. M. in 229° 58' Longitude of the Planets

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## SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES Calculated for Mean Noon at Greenwich February 1920

February, 1920
Full Moon February 4th at 8:42 A. M. in A. 14° 16'
Declination of the Planets

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SuMICVIN	7 8 9 10 11 12 13	21	9 13 17 21 25	15 15 14 17 14 14 13	36 18 59 40 20 1 41	22 21	58 54	13	10 35 58 19 39 58 16	7 11 14 17	s43 9 9 33 16 13	9	40 41 43 45 47 49 51	17	54 56 58 .1 3 5	10	13 19 25 31 37 43 49	11	51 50 48 47 46 45 44	17	44 45 45 46 46 47
Su	14 15 16 17 18 19 20	21	37 41 45 49 53	13 13 12 12 11 11	1 40 19	21 20		12 11 11 10 9 8 7	32 46 0 13 24 35 45	20 19 18 15 12 8 4	31 48 11 42 27 34 13	9	52 54 56 58 0 2 4	18	10 12 14 16 18 20 22	10 11	54 0 5 10 15 20 24	11	43 42 40 39 38 37 36	17	47 48 48 49 49 49 50
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# SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES Calculated for Mean Noon at Greenwich March, 1920

March, 1920

New Moon March 20th at 10:56 A. M. in ≠ 29° 34'

Longitude of the Planets

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M 8 17 38 T 9 18 38 W 10 19 38 Th 11 20 38 F 12 21 38	17 34 4 1 18 47 4 2 20 1 4 4 21 14 4R	17 18 24 16 0m57 28 13 12 11 25 14 35 7 \$7 30 18 56 8 0v347	32 28 23 19 14	9 17 8 12 8 3 8 58 54 50	50 35 54 38 58 41	12 10 9 8 7
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Su 21 0 7 35 M 22 1 35 T 23 2 34 W 24 3 34 Th 25 4 33 F 26 5 32 S 27 6 32	5 4 44 27 : 4 5 58 26 : 4 7 12 25 : 8 8 25 25 : 2 9 39 24	$\begin{array}{c cccc} 21 & 14 & 6 \\ 27 & 28 & 14 \\ 36 & 12 & 29 \\ 45 & 26 & 46 \\ 0 & 11 & 11 & 2 \\ 15 & 25 & 15 \\ 39 & 9 & 23 \end{array}$	30 26 22 18 14	13	3 50 3 18 45 21 39 24 33 27 25 30 17 33 7 36	58 57 56 7 56 8 55
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# SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES Calculated for Mean Noon at Greenwich March, 1920

Full Moon March 4th at 9:13 P. M. in mg 14° 01' Declination of the Planets

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Su vii	7   8   9   10   11   12   13	23	0 4 7 11 15 19 23	5 4 4 4 3 3 2	30 6 43	16 16 15 15 15 14 14	26 7 47 26 5 44 22	3 4 4 4 4 4 4	51 13 30 42 49 52 51	18 19 20	29 9 9 23 47 18 55	10	33 35 37 39 41 42 44		49 50 52 53 54 55 56	12	15 16 18 19 20 21 22		15 14 13 12 10 9 8	17	56 57 57 57 57 58 58
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uIII	21  22  23  24  25  26  27	23 0	55 59 3 7 11 15 18	0N 0 1 1 1 2 2	13 38 1 25 48 12 35	11 10 10 9 9 9	13 48 23 57 31 5 39	2 1 1 0 0 0		8 12 15 18 19 20 18	6 21 55 31 57 6 59	10	57 58 0 1 3 4 6	19	3 3 4 4 5 5 6	12	20 19 17 16 14 12 10	10	59 58 57 56 55 54 52	18	0 0 0 1 1 1
u I 7	28 29 30 31	0	22  26  30  34	2 3 3 4	59 22 46 9	8 7 6	12 45 18 51	1 1 2 2	18 44 7 28	16 13 9 5	42 30 35 14	11 11	7 8 10 11	19 19	6 6 7	12 11	7 5 2 59	10 10	51 50 49 48	18 18	2 2 2 2

## SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES Calculated for Mean Noon at Greenwich

April, 1920 New Moon April 18th at 9:43 P.M. in γ 28° 33' Longitude of the Planets

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W 7 17 22 24 23 22 34 3 1 8 Th 8 18 21 25 36 23 1 15 1 F 9 19 20 26 50 23 29 26 50 S 10 20 19 28 4 24 5 8 1 8 1 21 1 21 18 29 17 24 42 20 39 M 12 22 17 0 9 31 25 26 2 2 47 T 13 23 15 1 45 26 10 15 12	30     8     5     22     10     47     9       28     9     5     4     12     46     6       25     10     4     45     15     46     3       22     11     4     20     18     46     0       20     13     4     6     20     46     16     57
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
W   21   1   5   11   34   4   6   6   136   Th   22   2   3   12   47   5   18   21   17   F   23   3   2   14   1   6   31   5   5   4   8   24   4   0   15   14   7   48   20   7   Su   25   4   58   16   28   9   6   4   5   11   M   26   5   57   17   42   10   27   17   58   T   27   6   55   18   56   11   49   1   1   1   28	$ \begin{vmatrix} 0 & 38 & 0 & 30 & 44 & 45 & 25 \\ 4 & 58 & 41 & 0 & 7 & 46 & 45 & 22 \\ 57 & 45 & 29 & 2 & 48 & 45 & 18 \\ 56 & 49 & 29 & 22 & 51 & 45 & 15 \\ 55 & 53 & 29 & 0 & 53 & 45 & 12 \end{vmatrix} $
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	52 6 27 54 59 46 2

# SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES Calculated for Mean Noon at Greenwich April, 1920

Full Moon April 3rd at 10:55 A.M. in  $\Rightarrow$  13° 24'
Declination of the Planets

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7 8 9 10 11 12 13	1	2 6 10 14 18 22 25	6 7 7 8 8 9	49 12 34 56 18 40 2	3 3 2 2 1 1 0	35 7 38 9 41 12 43	3 3 3 3 3 3 3	44 45 44 40 34 26 16		15 3 58 59 10 34 16	11	19 20 21 22 22 23 24	19	6 6 6 5 5 4 4	11	33 29 24 19 14 9 4	10	41 40 39 38 37 36 35	18	3 4 4 4 4 4 4
14   15   16   17   18   19   20	1		9 10 10 10 11 11	24 45 7 28 49 10 31	0 0 0 1 1 2 2	14 15 44 13 42 11 40	3 2 2 2 1 1 1		7 3 1 6 10 14 17	22 2 36 17 44 39 41	11	25 26 26 27 28 28 28 29		3 3 2 1 1 0 59	10	59 54 48 43 37 32 20	10	34 34 33 32 31 30 30	18	4444
21  22  23  24  25  26  27	1 2		11 12 12 12 13 13	51 11 31 51 11 30 50	3 3 4 4 5 6	9 38 6 35 4 32 1	$0 \\ 0 \\ 0 \\ 0 \\ 1 \\ 1 \\ 2$	23 N 4 32 1	19 20 19 17 14 10 6	33 5 16 13 11 25 12	11	29 30 30 30 31 31 31	18	58 57 56 55 54 53 52	10 9	20 15 9 3 57 52 46	10	29 28 27 27 26 25 24	18	4 4 4
28 29 30	2 2	-	14 14 14	9 27 46	6 6 7	29 57 25	2 3 3	38 12 48	1 2s 6	45 541 56	11 11	32 32 32	18 18	51 49 48	9	41 35 30	10 10	23 23 22	18 18	4 4 4

# SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES Calculated for Mean Noon at Greenwich May, 1920

Eclipse of Sun May 18th at 6:25 A.M. in 8 26° 59' Longitude of the Planets

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F   7   16   37   18   11   27   24   5   18   6   5   8   17   35   2   25   29   7   16   58   58   9   18   33   3   39   0   54   28   55   M   10   19   31   4   52   2   41   11   23   25   W   12   21   26   7   19   6   25   6   6   6   13   22   24   8   33   8   18   19   9	4 49 9 47 25 11 49 53 24 53 59 24 36 49 10 5 24 19 50 11 24 2 50 17 23 47	5 13 8 15 16 18 19 21	
F   14   23   22   9   46   10   15   2 9   37   S   15   24   20   11   0   12   12   16   31   Su   16   25   18   12   13   14   12   0 8   51   M   17   26   16   13   27   16   12   15   32   T   18   27   13   14   40   18   16   0   12   9   17   8   22   27   0   37   37   37   37   37   37   37	53 38 23 4 54 45 22 51 55 52 22 39 56 59 22 28 57 11 7 22 17	25 26) 27] 28 29 9	56 12 57 9 58 6 59 8
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	2 30 21 51 3 38 21 43 5 46 21 37 7 54 21 31 9 12 2 21 27	32 33 34 35 36	2 14 55 3 50 4 47 5 44 6 40 7 37 8 34
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# EPHEMERIS OF THE PLANETS' PLACES Calculated for Mean Noon at Greenwich May, 1920

Eclipse of Moon May 3rd at 1:47 A. M. in m 12° 19'

Declination of the Planets

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	7 8 9 10 11 12 13	3	4	17 18	48 5 21 37 52 8 23	11 11 11 12 12	36 3 29 55 20 46 11	11 12	23 5 48 32 16 0 45		19 46 25 23 46 40 14	11	32 32 32 31 31 31 30	18	38 36 34 33 31 29 27	8	56 52 48 44 41 38 35		18 18 17 16 16 16 16	18	3 2 2 2 2 2
Su M T	14 15 16 17 18 19 20	3	40 43 47		37 52 6 19 33 46 58	14 14 14 15 15	24 48	14 14 15 16 17	30 14 59 44 28 11 54	8 13 16 18 20	53 2 30 56 2 43	11	30 30 29 29 28 27 27	18	25 23 21 19 17 15 13	8	32 29 27 25 23 21 20	10	14 14 14 13 12 12 12	18	2 2 2 2 2 1 1
M T	21 22 23 24 25 26 27	3 4	7 11 15			16 17 17 17 17	23 44	19 19 20 21 21	36 17 57 35 11 46 18	18 15 11 7 2 18 5	10 29 16 49 840 58	11	26 25 25 24 23 22 21	18 17	11 9 7 4 2 0 57	8	19 18 18 18 18 18 18 19		12 11 11 11 10 10 10		1 1 0 59 59 59 59
S Su	28 29 30 31	4	27	21 21 21 21			43 1 20 37	23 23	48 16 41 3	13	56 24 16 23		20 19 18 17		55 52 50 47	8	20 21 23 25		10 9 9 9	17 17	58 58 57 57

# SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES Calculated for Mean Noon at Greenwich June, 1920

New Moon June 16th at 1:41 P. M. in 

1 25° 4′

Longitude of the Planets

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T   1 10 40			23 12 54 21	15 5 38	9 15 14 1
W 2 11 38			25 13 3	16 39	17 1
Th 3 12 35		17856	28 12	18 40	
F   4   13   32 S   5   14   30			31 22	20 40	
Su 5 14 30 Su 6 15 27	0 00 00 00	25 42 742	34 31 40 40	23 40 27 40	
1 1	, , ,				
M   7   16 24			40 13 50 21	32 5 40	
	2 10 26 2 39	$2 \times 14$	43 14 0	37 40	
	$\begin{vmatrix} 11 & 39 & 4 & 30 \\ 5 & 12 & 53 & 6 & 22 \end{vmatrix}$		46 10 19 19 19 19 19 19 19 19 19 19 19 19 19	43 40 49 40	
		27 50 11 Y 11	53 29	57 40	
	15 20 9 55	24 58	57 39 22	5 R 40	
		9 8 11 6	0 49	14 40	1
				'	' '
	$5 17  48 13  18  \\ 3 19  1 14  54 $		4 14 59 22 8 15 10	24 5 40 34 39	
	0 20 15 16 31	$egin{array}{c c} 8 & 1148 \\ 24 & 0 \\ \end{array}$	8 15 10 12 20 1	45 39	
11 /	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		16 30	57 39	
	5 22 42 19 34		20 41 23	8 39	
	2 23 55 21 0	1 3	24 51	21 39	
Su 20 28 50	$0 25  ext{ } 9 22  ext{ } 27 $	23 41	29   16 2	34 38	44 ]
M  21 29 47	7 26 23 23 48	7m40 6	33 16 13 23	49  5 38	9 46 13 1
T 22 0 5 44			37 24 24	3 37	,
W 23 1 41	1 28 51 26 24		41 35	18 36	
Th 24 2 38		16 57	46 46	34 35	
F 25 3 36			51 57	50 34	
S  26  4 33		11m28	56 17 8 25	7 33	
Su 27  5 30	0 3 45 102	23   26   7	0 19	24 33	'
M  28  6 27		5 # 18 7			9 59 12 5
T  29  7 25			10 43 26		$\begin{vmatrix} 10 & 0 \end{vmatrix}$
W  30  8 22	2 7 26 4 1	28 58  7	15 17 54 26	20  5 31	10 2 12 4

# SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES Calculated for Mean Noon at Greenwich June, 1920

Full Moon June 1st at 5:18 P. M. in 10° 53'
Declination of the Planets

_			-					,1111	a 0103	1 0.	L (/1.	10 1	LIGI	1000	3						
	D.		Т. М.	0	o N '		ρ Ν ′	0	ў <b>N ′</b>	0	S'		り N′	0 I	1 1	0 5		0 5	tt 5 ′		N′ ₽
T W Th F Su	5	4	39 43 47 50 54 58	22	3 11 19 26 33 39	20	54 11 27 42 57 12	24 25		$\begin{vmatrix} 20 \\ 19 \end{vmatrix}$	41 7 39 19 11 21	11	16 15 14 13 12 11	17	45 42 39 37 34 31	8	27 29 31 34 37 41	10	9 9 9 9 9	17 17	56 56 56 56 55 55
MTWFFSS	7 8 9 10 11 12 13	5	2 6 10 14 18 22 26	23	45 51 56 1 5 9	21 22	26 39 51 3 15 25 35	24	24 25 24 21 15 7 58	7 11	56 2 47 ×39 6 20 4	11	9 8 7 5 4 2 1	17	28 26 23 20 17 14 11	9	44 48 52 56 1 6 11	10	9 9 9 9	17	55 54 54 54 53 53 52
M r W r h e S u	14 15 16 17 18 19 20	5	30 34 38 42 46 50 54	23	19	22 23	45 54 2 9 16 22 27	<ul><li>24</li><li>23</li></ul>	46 33 19 3 45 27 8	17 19 20 18 16 13 8	58 43 4 56 29 0 49	10	59 58 56 55 53 51 50	1.7 1.6	8 5 59 55 52 49		6 21 27 33 39 45 51	10	9 9 9 10 10	17	52 51 51 51 50 50 49
M r V ch s su	21 22 23 24 25 26 27	5 6	58 1 5 9 13 17 21		27 27 26 25 24 22 20	23	44	22 21 20			17 s19 46 53 31 33 53	10	48 46 45 43 41 39 37		46 42 39 36 36 32 29 26	10	58 5 12 19 26 34 41	10	10 10 11 11 12 12 12	17	49 48 48 47 47 46 45
M T V	28   29   30	6	29	23 23	14	23 23	46 45 43			19 20 19	24 5 52	10 10	33	16 16	19		49† 57 5		13 13 14		45 44 44

## SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES Calculated for Mean Noon at Greenwich July, 1920

July, 1920
New Moon July 15th at 8:25 P. M. in \( \sigma 23^\circ 1'\)
Longitude of the Planets

Date   O   Sign   O O	空 <b>′′。</b> ひ′	0 1/8/10	5 24 mg' ο Ω'	0 = 1	。 光 /	· S · o m
Th 1 9 19 8 F 2 10 16 9 S 3 11 13 11 Su 4 12 10 12 M 5 13 8 13 T 6 14 5 14	54 5 43 7 6 26 21 7 10 35 7 46	$\begin{bmatrix} 10 & 49 & 7 \\ 22 & 45 & 4 \\ 4 & 46 & 6 \\ 16 & 54 & 29 & 10 \\ 11 & 37 & 6 \end{bmatrix}$	36 40 41 52		26	0 4 12 4 6 3 7 9 3 12 2 15 2
W   7   15	16 9 18 30 9 37 44 9 56 58 10 5 12 10 15	$egin{bmatrix} 7\ \Upsilon\ 15 \ 20 & 31 \ 4\ 8\ 9 \ 18 & 12 \ 2\ \Pi\ 38 \ \end{bmatrix}$	58 27 3 39 9 51		22 20 19 18 16	0 17 12 2 19 2 1 1 23 1 25 1 27 30
W   14   21   43   24   25   76   16   23   37   27   24   34   28   31   32   32   39   30   30   30   30   30   30   30	53 10 7 7 9 58 21 9 39 35 9 21 49 8 53	17 40 2048 17 43	3 32 20 29 38 51 44 21 4 50 16 57 29 3 41 9 54	1 57 2 23 2 49 3 15 3 42	8 7 6	10 32 12 34 11 5 36 5 38 40 4 42 44 4
	30 7 17 44 6 37 58 5 57 12 5 14 26 4 31	25 49	15 22 6 22 19 28 31 35 44 41 56 48 23 9 54 21	5 5 5 33 6 1 6 30 6 59	0 4 58 56 54 52	54 5 56 2 58 2
W   28   5 5   11 Th   29   6 2   13 F   30   6 59   14 S   31   7 57   15	8 2 25 22 1 45	$ \begin{vmatrix} 7 & 44 \\ 19 & 40 \\ 1 & 42 \\ 13 & 53 \end{vmatrix} $	1 23 34 7 47 14 24 0 0 21 24 13	8 29 8 59	46 44	11 2 11 1 4 7 11 10 11

### SIMPLIFIED SCIENTIFICE EPHEMERIS OF THE PLANETS' PLACES Calculated for Mean Noon at Greenwich July, 1920

Full Moon July 1st at 8:41 A.M. in v3 9° 11'
Full Moon July 30th at 11:19 P.M. in 27° 27'
Declination of the Planets

D.		Т. М.	0 ]		0 ]		0	N , ĝ	0	S'	0]	2 N '	2 0 N	t /	° S	1	· S		o	N,
1 2 3 4 5 6	6	37 41 45 49 53 57	23  22	7 3 58 53 48 42	23	25		53 29 5 42 19 57	16 14 10 7	46 52 13 57 11 4		29 27 25 23 21 19		12 8 4 1 57 53		13 22 30 39 47 56		14 14 14 15 15 16		44 43 43 43 42 41
7 8 9 10 11 12 13	7	1 5 8 12 16 20 24		36 29 22 15 7 59 51	23 22	13 6 58 49 40 30 20	15	$\begin{array}{c} 19 \\ 2 \end{array}$	5 9 13 16	\$16 38 51 41 51 3		17 15 13 11 8 6 4		50 46 42 39 35 31 27	12 13	5 14 24 33 42 52 1		16 17 17 18 18 19 19	17	41 40 40 39 39 38 38
14 15 16 17 18 19 20	7	28 32 36 40 44 48 52		42 33 23 13 3 52 41		9 57 44 31 18 3 48	13	23 13	1	36 46 42 45 14 31 87	9	1 59 57 55 52 50 47		19 15 11 7	13 14	11 21 30 40 50 0		20 21 22 22 23 23 24	17	37 57 56 36 35 34 33
21 22 23 24 25 26 27	78	56 0 4 8 12 16 19		29 18 6 53 41 27 14	19	33 17 0 43 25 7 48	14	10 19	11 14	27 19 35 9 55 51 54	9	45 42 40 38 35 33 30		55 51 47 43 39 35 31	14 15	20 31 41 51 1 12 22		24 25 25 26 27 28 29	17	33 32 32 31 31 30 29
28 29 30 31	8	23 27 31 35	18	0 46 32 17	17	28 9 48 27	15	41 55 9 24	17 14	5 25 59 53	9	25 22	14 14	27 22 18 14		33 43 53 4		30 30 31 31		28 28 27 27

# SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES Calculated for Mean Noon at Greenwich August, 1920

New Moon August 14th at 3:44 A.M. in  $\Omega$  21° 1' Longitude of the Planets

Longitude of	the Transcs
Date   ⊙   ♀   ♥   D   Sign   ∘ & ′   ∘ & ′   ∘ & ′   ∘   ∘	り   24   <b>3   班   Ψ</b>   m/o N/o M/o N/o
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	35 24 39 10 31 38 14 41 24 51 11 3 36 16 1 48 25 4 11 34 34 18 55 25 17 12 6 32 20
S   7 14 39 24 14 29 17 14 11 11 Su   8 15 36 25 28 29\(\dot{D}\)29 28 6  M   9 16 34 26 42 29 41 12\(\pi\)19 T   10 17 31 27 56 0\(\Omega\)7 26 50 W   11 18 29 29 10 0 32 11\(\omega\)35 Th   12 19 27 0\(\omega\)24   1 38  1 52   11\(\omega\)21	16 25 56 13 44 25 26 28
	E0197 14/17 ALA 19/11 20/1:
S   21   28 6   11 30   11 23   28 37   12 Su   22 29 4   12 44   13 0   10 \(\pi\) 34   M   23 0mg2   13 58   14 38   22 25   13 T   24 1 0   15 12   16 23 4\(\pi\) 15   1 58   16 27   18 8   16 10 Th   26 2 56   17 41   19 58   28 11 F   27   3 53   18 55   21 48   10 \(\pi\) 22	50 28 46 21 9  3 55 11 55 1 57 28 59 21 45  52  57
S  28  4 51 20 9 23 42 22 44 13 Su 29  5 49 21 23 25 37  5\(\div 18\)	42  0 17 25 24  3 38 12 10  50  0 30 26 1  36  12  57  0 43 26 38  34  14

## SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES Calculated for Mean Noon at Greenwich

August, 1920 Full Moon August 29th at 1:03 P.M. in  $\times$  5° 52′ Declination of the Planets

D.	S.  H.		0	Э <b>N′</b>		N'	0	ν ν΄	0	D S'		2	2 0 N	t ,	° S	1	o S	E	0	N '
$\begin{vmatrix} 1\\2\\3\\4\\5\\6 \end{vmatrix}$		43 47		47 32 16 0	17 16 16 15 15	6 44 21 59 35 12		28 43	0 4	12 N 5 25		17 14 12 9 7 4	13	10 5 1 57 52 48		14 25 35 46 56 7		32 33 34 34 35 36		26 26 25 25 24 24
7 8 9 10 11 12 13		15 19	16 15 15	10 53 35 18 0	14 14 13 13 13 12 12	48 23 58 33 8 42 15	18	28 41 52 3 11	15 18 19 19 18 16 12	5	8	1 58 56 53 50 48 45		44 39 35 31 26 22 17		17 27 38 48 59 9 19		37 38 39 40 41 42 43		23 22 21 20 20 20 19
14 15 16 17 18 19 20		$\begin{array}{c} 42 \\ 46 \\ 50 \end{array}$	14 13 13	5 46 27 7 48	11 10 10 9 9	49 22 54 27 59 31 3		26 27 25 20 13	1 5	s 7 40 47 20	8	42 39 36 34 31 28 25		9	18 19	29 40 50 0 10 20 30		44 44 45 46 47 47 48		18 18 17 16 16 15 15
21 22 23 24 25 26 27		58 2 6 10 14 18 22	11 11 11 10 10	48 28 8 47 26	8 8 7 6 6 5	5 36 7 38 8	16	34 16 55 31 4	18 19 19 19 17 15	26 47 14 51 40		22 20 17 14 11 8 5		42 37 33 28 24 19 15		40 50 59 9 18 28 37		49 50 51 52 53 54 54		14 13 13 13 12 12 11
28 29 30 31		26 30 33 37	9 9	23 1	5 4 4 3	38 8	15 14 13 13	29 53	5	22	8 7 7	0 57	12 11	5 1	20 21 21	56 5		56 57		11 10 9 8

### SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES Calculated for Mean Noon at Greenwich September, 1920

New Moon September 12th at 0:52 P.M. in my 19° 26'

Th |30|

## SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES Calculated for Mean Noon at Greenwich

September, 1920

Full Moon September 28th at 1:57 A.M. in γ 4° 38' Declination of the Planets

-		-	-						-	Carles Specialis										
).		T. M.	0	- ;		N ,	0	ğ N′	0	N /		? N ′	2 0 N		0 2		0 5		o	N'
123456	11	41 45 49 53 57	8 7 7 6 6	18 56 34 12 50 28	3 2 2 1 1 0	7 37 6 36 5	12 11 11 10 9	36 55 13 30 45	7 11 14 17 19	29 54 33 11	7	51 48 45 42 40 37	11	52 47 43 38 38 33 29	21	23 31 40 49 57 5		58 59 0 1 2		8 7 7 6 6 5
7890123	11	5 9 13 17 21 25 29	6 5 5 4 4 4 3	5 43 20 58 35 12 49	0 0 1 2 2 3	3 58 58 29 0 31 2	8765543	15 28 41 54 7 20 32	18 13 13 9 5 0	53 49 56 31	7	34 31 28 25 22 19 17		24 20 15 11 6 1 57		13 21 29 37 44 52 59	11	4 5 6 7 8 9		4 3 3 2 2
4.5.6.7.8.9.10		33 37 41 44 48 52 56	3 2 2 1 1	26 3 40 16 53 30 7	3 4 4 5 6 6	\$3 3 34 5 35 5 36	$\begin{bmatrix} 2\\1\\0\\0\\1\\1 \end{bmatrix}$	45 57 10 23 s 24 11 57	11 15 17 18 19	54 24 24 55 33	7	14 11 8 5 2 0 57		52 48 43 39 34 30 25	23	6 13 20 26 33 39 45	11	10 11 11 12 13 14 14	16	2 1 0 0 0 59 58
11 12 13 14 15 16 17	12	0 4 8 12 16 20 24	0 0 0 0 1 1	43 20 83 27 50 14 37	7 7 8 8 9 9	6 36 5 35 4 34 2	2 3 4 4 5 6 7	43 28 13 58 42 26 9		18 41 26 40	6	54 51 48 45 43 40 37		21 16 12 7 3 58 54		51 57 2 8 13 18 22		15 16 17 17 18 19 20	16	57 56 56 56 55 55
28 29 30		28 32 36	2 2 2	0 24 47		32 0 28	7 3 9	51 33 15	! 6 :0 :13	58	6	34 29 32	9 9	49 40 45		27 35 31			16	54 54 54

# SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES Calculated for Mean Noon at Greenwich October, 1920

October, 1920

New Moon October 12th at 0:50 A.M. in  $\simeq$  18° 24'

Longitude of the Planets

Date $\mid \odot \mid$ Sign $\mid \circ \simeq \prime \mid \circ$	ρ   ğ   o m '  ° ≃ '  °	8,01	12 / ° 11/2 11/2 11/2 11/2 11/2 11/2 11/	Q' ° 1'	ッ ・ ・ ・ ・ 、 ・	o si o s
S 2 8 59 3 Su 3 9 58 4 M 4 10 57 5 T 5 11 56 5	1 32 27 12 19	∏33 18 41 ≅51 3	3 4 10 8 18 8 25 1	29   17   51   18   33   33   19   15   5   19   57   17   20   39   29   21   22	22 20 18 17	13 14 15 16
Th 7 13 55 9 F 8 14 54 16 S 9 15 53 14 Su 10 16 53 13 M 11 17 52 14 T 12 18 52 15 W 13 19 51 16	0 42 4 30 0 1 55 5 54 14 3 9 7 19 27 4 23 8 42 11 5 37 10 4 24	13 53 19 19 29	46 53 9 0 1 7 2 14 3	52 22 47 4 23 29 16 24 12	12 10 9 8	23 24 25
Th   14   20   51   18   F   15   21   50   19   S   16   22   50   26   Su   17   23   49   21   M   18   24   49   22   T   19   25   48   24   W   20   26   48   23	) 18 14 3 2 ) 32 15 21 14   45 16 37 26   59 17 53 8   13 19 6 20	# 18   25   23   V316   8   20	36 44 49 54 49 54 1 54 4	1 27 4 13 27 48 24 28 31 35 29 14 46 29 58 57 0 $\nu$ \$11 8 1 25	581	29 30 31 32 33
Th   21   27   48   20   F   22   28   48   27   S   23   29   47   26   Su   24   0m   47   0   M   25   1   47   T   26   2   47   47   W   27   3   47   47   47   47   47   47   47	7 54 22 35 26 9 8 23 40 8 4 22 24 45 21 1 36 25 44 5 2 49 26 43 18	24 → 57 50 ↑ 4 40	21   2 27   4 33   5 39   12   1	18     2     9       29     2     53       10     3     37       51     4     21       1     5     5       11     5     49       21     6     33	55 54 53 52	37 38 38
		$\begin{array}{c c} \Pi 13 & 21 \\ \hline 43 & \end{array}$	4 4	32	49 48	13 40 6 41 41 13 41 6

## SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich October, 1920

Eclipse of Moon October 27th at 2:08 P.M. in 8 3° 52'
Declination of the Planets

S.   H.		°S′		S'		ğ. S ′	0	D N		2 N '	0 <u>N</u>	1 1	0 5			н З ′	0	N,
1 12		3 10 3 34 3 57 4 20 4 43 5 6		52		36 15 54 32	16 18 19 18 17 14	51 45 29 59 19 35	6	26 23 21 18 15 13	9	36 32 27 23 19 14		39 43 46 50 53 55		21 22 22 23 24 25	16	54 53 53 52 52 51
13	7 11 15 19 23	5 29 5 52 6 15 6 38 7 1 7 23 7 46	14 15 15 15 16 16 17	30 55	14 14 15 16 16	46 21 56 30 4 36 8	6 2	1 51 22 s11 33 31 54	5	10 7 5 2 59 57 54	9	10 6 2 57 53 49 45	24 25	58 0 2 4 6 7 8	11	25 26 26 27 27 28 28	16	51 51 51 50 50 50 50
: 13	35 39 43 47 51	8 30 8 53 9 15 9 37	17 17 18 18 19 19	17 40	18 18 19 19	38 36 4 30 55 19	16 18 19 19 18 16 14	33 22 19 22 33 55 35		52 49 47 44 42 39 37	8	41 36 32 28 24 20 16	25	9 10 10 10 10 10 9	11	29 29 30 30 30 31		49 49 49 49 48 48 48
13 14	59 1 2 1 6 1 10 1 14 1 18 1 22 1	1 3 1 24 1 45 2 6 2 26		23 2 42 2 0 2 18 2	20 21 21 21 22 22 22	42 4 24 43 0 16 30	11 8 4 0x 4 8 12	35 3 4 111 33 49 43	5	34 32 30 27 25 23 20	8	12 8 4 1 57 53 49		9 7 6 4 2 0 58	11	31 32 32 32 33 33 33	16	48 47 47 47 47 46 46
14	26   130   134   138   14	3 27 3 47			22 23	53 1	15 18 19 19	57 15 21	5 5	18 16 14 11	7	45 42 38 34		55 52 49 46		34 34 34 34		46 45 45 45

## SIMPLIFIED SCIENTIFIC CLIPTEN OF THE PLANETS' PLACES

## Calculated for Mean Noon at Greenwich

November, 1920

Eclipse of Sun November 10th at 4:05 P.M. in m 17° 59' Longitude of the Planets

Date   O   Sign   m / o	1 1 0 1 0 5° 1	5   2f		¥ 1°Ω 1° μ   Ψ
M   1   8   47   10   T   2   9   47   11   W   3   10   47   12   Th   4   11   47   13   F   5   12   47   16   S   6   13   47   16	10 1 9 14 43 23 1 32 29 2 37 1 55 13 \times 10 50 2 3 27 6 4 2\times 12 10\times 47 17 2 4 24 15	28 22 34 31 40 41 45 50	11 1 11 46	R47 13 42 47 42 46 43 46 43 46 43 46 43
Su 7 14 48 17 M 8 15 48 18 T 9 16 48 19 W 16 17 49 21 Th 11 18 49 22 F 12 13 49 23 S 13 20 50 24	31   1 55   7 \( \times \) 29   44   1 27   20 29   58   0 59   3 \( \times \) 11   29 \( \times \) 15   51   24   29 23   28   14   37   28   17   10 \( \times \) 27   12   22   30	22 2 18   7 27   12 36 18 44 23 52	14     45     1       15     30     16       16     16     17       17     46     18       18     31     19       17     17     17	45   13   44   45   44   45   45   45   45   4
Su 14 21 50 20 M  15 22 51 27 T  16 23 51 28 W  17 24 52 29 Th  18 25 52 01/ F  19 26 53  2 S  20 27 53  3	4 25 54 4 4 2 2 6 17 24 37 16 18 30 23 16 28 9 44 21 56 10 cm 3 757 20 43 22 3 10 19 30 4 16 23 18 34 16 45	38 18 43 26 48 34 53 42 57 50	21 33 22 19	45 13 45   46   46   46   46   46   46   46
Su 21 28 54 4 M 22 29 54 5 T 23 0 4 55 7 W 24 1 56 8 Th 25 2 57 9 F 26 3 57 10 S 27 4 58 11	36 17 38 29 35 49 17 3 12 \( \pm 49 \) 2 16 28 26 29 15 16 17 10 \( \pm 36 \) 28 \( \pm 6 \) 5 25 6 41 \( \pm 16 \) 54 \( \pm 16 \) 54 \( \pm 6 \) 52 \( \pm 24 \) 54 \( \pm 6 \) 55 \( \pm 6 \)	$\begin{array}{c cccc} 10 & 12 \\ 15 & 19 \\ 19 & 26 \\ 23 & 33 \\ 27 & 40 \end{array}$	25 22 1 26 8 26 54 27 40 28 25 29 11 29 57	48 45 45 45 50 45 51 45 52 44
Su 28  5 59 13 M  29 7 0 14 T  30  8 0 15	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	39 17 0	$ \begin{vmatrix} 0.2743 & 1 \\ 1 & 29 \\ 2 & 15 & 1 \end{vmatrix} $	53 13 44 54 43 55 13 43

# SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES Calculated for Mean Noon at Greenwich November, 1920

Full Moon November 26th at 1:42 A. M. in II 3° 31'

Declination of the Planets

_																			
	S. T. [. M.		o   S '		ş S ′	0	ğ S	0	D N′		b N′		1 1	0 8	5	0 S		0	v N'
1 1 2 3 4 5 6 1	46 50 54 58	14 15	25 44 3 22 40 58	23 24	20 33 45 56	23 23		7   3	13 50 49	5	9 7 5 3 1 59		31 27 24 20 17 13		42 38 34 29 24 19	1.1	34 34 34 34 34 34	16	45 45 45 45 45 45
7 1 8 9 10 11 12 13	5 6 9 13 17 21 25 29	17	16 34 51 8 25 41 57	24	16 24 33 40 47 53 58	22 22 21 21 21 20	41 25 5 41 13 41 7	15	22 54	4	57 55 53 51 49 47 45	6	10 7 3 0 57 54 51	23	14 9 3 57 50 44 37	11	35 35 35 35 35 35 35	16	44 44 44 44 44 44
14 15 15 16 17 18 19 20	5 33 37 41 45 49 53 57	18	13 29 44 59 13 27 41	25		17 16 16	30 51 11 31 53 17 45	17 15 12 9 5	55 33 26 41 22 37 32	4	44 42 40 38 37 35 34		48 45 42 39 36 33 30	22	30 23 15 7 59 51 42	11	35 34 34 34 34 34 34 34	16	44 44 44 44 44 44
21   10 22   23   24   25   26   27		19 20 21	55 8 20 33 45 56 7	25 24	11 8 5 0		16	7 11	44 0 4 39 25 5 26	4	32  30  29  28  26  25  23	6	28  25 22 20 17 15 13	22	33  24 15 5 55 45 35	11	34 33 33 33 33 33 32	16	44 44 44 44 44 44 44
28 10 29  30 10	32		18 29 39		49 43 36	14	34	18 16 12	9	4	22 21 20	6	8	21 21	25 14 3	11 11	32 31 31		44 45 45

### SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES

## Calculated for Mean Noon at Greenwich

December, 1920 New Moon December 10th at 10:03 A. M. in \$\chi\$ 18\circ\$ 5' Longitude of the Planets

Date   O Sign   o t'	ºV3'   º	ರ   ೨ m′   °ಎ	/ b	2f	8 0	ッ  ° <b>光</b> ′	。 の、   サー
Th 2 10 2 F 3 11 3 S 4 12 4 Su 5 13 5	16   45   18   17   57   19   10   20   22   21   21   35   22   22   47   24	$egin{array}{c c} 46 & 7m3 \ 41 & 21 & 1 \ 45 & 4 - 2 \ 50 & 17 & 2 \ \end{array}$	39 50 4 53 8 57 24 <b>24</b> 0	23 28	3 2 3 48 4 34 5 20 6 7 6 53	1p56 57 58 59 2 0	41 40 39
W 8 16 8 Th 9 17 9	0.221 1	$egin{array}{c ccccccccccccccccccccccccccccccccccc$	$egin{array}{c c} 50 & 9 \\ 0 & 12 \\ 2 & 15 \\ \end{array}$	54 59 7 18 3	8 25 9 12 9 58 10 45 11 31	3 5 6 8 10	37 36 35 34
T   14   22   14 W   15   23   15 Th   16   24   16 F   17   25   17 S   18   26   18 Su   19   27   19 M   20   28   20	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$egin{array}{c ccccccccccccccccccccccccccccccccccc$	36     24     24       29     26       28     28       37     31       1     33       43     34       49     36	1 18 16 6 19 8 23 1 26 8 29 1 32 6 35	13 4 13 51 14 37 15 24 16 10 16 57 17 43	14 16 18 20 22	31 30 29 28
W   22   0\(\sigma 23\) Th   23   1 24 F   24   2 25 S   25   3 26 Su   26   4 27	13 10 17	3     20     18     2       7     50     2 m 5       9     20     17     5       0     51     3 m       2     22     18     2	22   24   37   38   54   40   45   45   45   45   45   45	40 42 44 3 46 4 48	18 30 19 16 20 3 20 49 21 36 22 23 23 10	28 30 32 34 36	24 23 22 22 21 19
W 29 7 30 Th 30 8 32	20   15   26 $ 21   25   28$		23  40	52 53	24 43 25 29	45	16 15

## SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

December, 1920 Full Moon December 25th at 0:38 P.M. in S 3° 27' Declination of the Planets

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## MYSTERY OF THE DUCTLESS GLANDS

#### By A STUDENT

In developing this fascinating subject the writer has delved deeply into the esoteric information in Max Heindel's writings and has also presented authentic physiological data as taught by Medical Science.

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THE ROSICRUCIAN FELLOWSHIP Oceanside, California, U.S.A.

### EPHEMERIS OF PLUTO FOR 1921

Date	Long.	Dec.	Date	Long.	Dec.
January 9	7° 5 37′R			8° 5 35′	19° N 57'
February 8			August 7	9° 55 17′	19° N 55′
March 10	6° 55 47′	19° N 50′	September 6	0,	19° N 53′
April 9	6° ≤ 41′	19° N 54′	October 6		19° N 52′
May 9			November 5	9° 55′R	19° N 51′
June 8	7°	19° N 58′	December 5	9° 5 29′	19° N 54'

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Oceanside, California, U.S.A.

## SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES Calculated for Mean Noon at Greenwich

January, 1921 New Moon January 9th, 5:26 A. M., in 1/3 18° 26' Longitude of the Planets

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### SIMPLIFIED SCIENTIFIC

### EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich JANUARY, 1921

Full Moon January 23rd, 11:07 P. M., in & 3° 27'
Declination of the Planets

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### SIMPLIFIED SCIENTIFIC

### EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

FEBRUARY, 1921

New Moon February 8th, 0:36 A. M., in ...... 18° 44' Longitude of the Planets

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## EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

February 1921
Full Moon February 22nd, 9:32 A. M., in my 3° 15'
Declination of the Planets

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# EPHEMERIS OF THE PLANETS' PLACES Calculated for Mean Noon at Greenwich MARCH, 1921

New Moon March 9th, 6:09 P. M., in → 18° 39' Longitude of the Planets

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## EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich MARCH, 1921

Full Moon March 23rd, 8:18 P. M., in = 2° 40'
Declination of the Planets

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# EPHEMERIS OF THE PLANETS' PLACES Calculated for Mean Noon at Greenwich APRIL, 1921

Eclipse New Moon April 8th, 9:05 A.M. 7 18° 0' Longitude of the Planets

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## EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

APRIL, 1921
Eclipse Full Moon April 22nd, 7:49 A. M., m 1° 39'
Declination of the Planets

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## EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

MAY, 1921
New Moon May 7th, 9:01 P. M., 8 16° 44'
Longitude of the Planets

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## EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

MAY, 1921
Full Moon May 21st, 8:15 P. M., \$\pm\$ 0\circ 12'
Declination of the Planets

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# EPHEMERIS OF THE PLANETS' PLACES Calculated for Mean Noon at Greenwich June, 1921

New Moon June 6th, 6:14 A. M., in II 14° 59' Longitude of the Planets

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## EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich June, 1921

Full Moon June 20th, 9:41 A. M., in 1 28° 30' Declination of the Planets

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## EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

July, 1921
New Moon July 5th, 1:36 P. M., in 5 12° 58'
Longitude of the Planets

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Su		10	59		21				П16		33		36	9	46		29		17		1
M		11			20		45		56		37		45		26		29		19		13
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Th		28		13			23			21		16	31		35	9				22	2
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S				15			01		<b>€</b> 13		11			22			03		58		1 1 0 0
Su							32		08			17						13			1
M	25		58	17	53	13	02	2	Υ <sub>10</sub>		22			24			00		03		0
T	26						44				28			24					05		0
W	27	3	53	20	02	14	26	26	51		33	ļ	35	25	30	ļ	56		07		0
Th	28	4	51	21	06	15	20	9	8 39	21	39	17	46	26	09	8	54	13	09	21	5
$\mathbf{F}$	29		48	22	12	16	13	22	52		45			26			53		12		בי כי כי
S	30			23		17	18	6	П33			18	08	27	27		51		14		5
Su	31						23				57				06		49		16		4
						•		•		•		•		,		1					

## EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich July, 1921

Full Moon July 20th, 0:07 A. M., in v3 26° 44'

Declination of the Planets

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D	ay	S.	Т.	ì	N	ì	1		N	1	V	Ì			Ī	ì	1	H	3	1	į V
F S S M	4 5		M. 36 40 44 48 52 56	° 23 22	$\begin{array}{c} 00 \\ 55 \\ 49 \end{array}$	15 15 15 16 16 16	30 44 58 12 26 39	18 18	06 01	0 14 16 18 18 18 15	28 59 33 56 01 50	6	10 08 06 04 02 01	7	39 35 32 28 25 21	° 24 23	02 00 57 54 52 49	8	44 44 45 45 45 46	17	13 13 12 11 10 10
FISSMTW	8 9 10 11 12		00 04 08 11 15 19 23		31 24 17 09 01	17	45 57	17	53 51 51 52 54 58 02	5	34 31 01 35 02 07 37	5	59 57 55 53 51 49 47	6	18 14 10 06 02 59 55	23	45 42 38 35 31 26 22	8	46 47 47 47 48 48 49	17	09 09 08 07 07 06 06
FSSMTW	15 16 17 18 19		27 31 35 39 43 47 51	21		18 18 19 19	33 45 56 07 18	18 18 18 18 18 18 19	15 23 32 41	18 16	27 28 38 55 19 55 48	5	45 43 41 38 36 34 32	6	51 47 43 39 35 31 27		17 13 08 03 57 52 46	8	49 50 50 51 51 52 53	17	05 05 04 04 03 03 02
TIFSMTW	22 23 1 24 25 26		55 59 03 07 11 15	19	32 21 09 56 44 31 17	20	48 57	20	13 25 36 48 59 10 20	8 5 1 21 6	04 51 18 30 23 14 54	5	30 27 25 23 20 18 16	6	22 18 14 10 05 01 57		41 35 28 22 16 09 02		54 54 55 55 56 56 57	17 16	01 01 00 00 59 59 58
FS	28 29 30 1 31		22 26 30 34	18	50 36	20 20 20 20 20	44 51	20 20 20 20 20			12 56 52 47	5	13 11 08 06	5	52 48 44 39		55 48 41 33	9	58 59 00 01	16	57 56 55 55

## SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES

## Calculated for Mean Noon at Greenwich August, 1921

New Moon August 3rd, 8:17 P. M., in a 10° 55' Longitude of the Planets

T   2   9   38   26   34   20   54   20   22   09   42   29   23   45   W   3   10   35   27   41   22   20   5 \times 37   16   53   0 \times 02   43   Th   4   11   32   28   47   23   45   20   55   22   19   04   0   41   41   F   5   12   30   29   53   25   20   6 \text{mp06}   28   16   1   20   39   S   6   13   28   0 \times 59   26   54   20   59   34   28   1   59   37   Su   7   14   25   2   206   28   37   5 \times 28   22   41   19   40   2   38   8   35   13   M   8   15   23   3   13   0 \times 20   19   29   47   51   3   16   33   T   9   16   20   4   20   2   10   3 \text{mp02}   54   20   03   3   55   30   W   10   17   18   5   27   3   59   16   11   23   30   14   4   33   28   Th   11   18   15   6   35   5   24   28   57   07   26   5   12   26   F   12   19   13   7   42   7   48   11   \times 26   13   38   5   50   24   S   13   20   10   8   50   9   17   23   41   20   50   6   29   21   Su   14   21   08   9   57   11   45   5 \times 5 \times 46   29   39   40   26   8   25   15   Th   18   24   59   14   30   19   49   23   24   54   50   9   42   10   F   19   25   57   15   39   21   51   5 \times 17   24   00   22   03   10   20   08   S   20   26   54   16   47   23   52   17   13   07   15   10   58   05   14   M   22   28   50   19   05   27   52   11   \times 23   21   40   12   15   01   14   M   22   28   50   19   05   27   52   11   \times 23   21   24   44   22   28   11   37   8   03   14   M   22   28   50   19   05   27   52   11   \times 23   21   24   44   22   28   11   37   8   03   14   M   22   28   50   19   05   27   52   11   \times 23   21   24   44   22   28   11   37   8   03   14   M   22   28   50   19   05   27   52   11   \times 23   21   24   44   42   28   11   37   8   03   14   30   30   30   30   30   30   30   3	1 2 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	8 21 4 3 3 5 3 3 6 2 2 2 21 2
T   2   9   38   26   34   20   54   20   22   09   42   29   23   45   W   3   10   35   27   41   22   20   5 \times 37   16   53   0 \times 02   43   Th   4   11   32   28   47   23   45   20   55   22   19   04   0   41   41   F   5   12   30   29   53   25   20   6 \text{mp06}   28   16   1   20   39   S   6   13   28   0 \times 59   26   54   20   59   34   28   1   59   37   Su   7   14   25   2   206   28   37   5 \times 28   22   41   19   40   2   38   8   35   13   M   8   15   23   3   13   0 \times 20   19   29   47   51   3   16   33   T   9   16   20   4   20   2   10   3 \text{mp02}   54   20   03   3   55   30   W   10   17   18   5   27   3   59   16   11   23   30   14   4   33   28   Th   11   18   15   6   35   5   24   28   57   07   26   5   12   26   F   12   19   13   7   42   7   48   11   26   13   38   5   50   24   S   13   20   10   8   50   9   17   23   41   20   50   6   29   21   Su   14   21   08   9   57   11   45   5 \times 5 \times 46   29   39   40   26   8   25   15   W   17   24   01   13   22   17   48   11 \times 32   47   38   9   04   12   Th   18   24   59   14   30   19   49   23   24   54   50   9   42   10   F   19   25   57   15   39   21   51   5 \times 17   24   00   22   03   10   20   08   S   20   26   54   16   47   23   52   17   13   07   15   10   58   05   14   M   22   28   50   19   05   27   52   11   \times 23   21   40   12   15   01   14   M   22   28   50   19   05   27   52   11   \times 23   21   21   40   12   15   01   15   01   14   15   01   15   10   15   10   15   10   14   15   10   14   15   10   14   15   10   14   15   10   14   15   10   14   15   10   14   15   10   15   10   14   15   10   14   15   10   14   15   10   14   15   10   14   15   10   15   10   14   15   10   14   15   10   14   15   10   14   15   10   14   15   10   14   15   10   14   15   10   14   15   10   14   15   10   14   15   10   14   15   10   14   15   10   14   15   10   14   15   10   14   15   10   14   15   10   14   15   10   15   10   15   10   1	1 4 3 3 5 3 6 3 7 2 2 21 2
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	2 21 2 2 4 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3
Th   4   11   32   28   47   23   45   20   55   22   19   04   0   41   41   F   5   12   30   29   53   25   20   6mp06   28   16   1   20   39   37   28   7   14   25   2   206   28   37   5 = 28   22   41   19   40   2   2   38   8   35   13   3   3   3   3   3   3   3   3	$\begin{bmatrix} 2 \\ 2 \end{bmatrix}$
F   5   12   30   29   53   25   20   6 mp 06   28   16   1   20   39   37   37   38   7   14   25   2   26   54   20   59   34   28   1   59   37   37   38   38   35   38   38   38   38   38	$\begin{bmatrix} 2 \\ 2 \end{bmatrix}$
S   6   13   28   0   559   26   54   20   559   34   28   1   559   37    Su   7   14   25   2   206   28   37   5   28   22   41   19   40   2   238   8   35   13    M   8   15   23   3   13   0   0   20   19   29   47   51   3   16   33    T   9   16   20   4   20   2   10   3   m   02   54   20   03   3   55   30    W   10   17   18   5   27   3   59   16   11   23   20   14   4   433   28    Th   11   18   15   6   35   5   24   28   57   07   26   5   12   26    F   12   19   13   7   42   7   48   11   26   13   38   5   50   24    S   13   20   10   8   50   9   17   23   41   20   50   6   29   21    Su   14   21   08   9   57   11   45   5   5   46   23   26   21   02   7   08   8   19   13    M   15   22   26   11   05   13   46   17   45   33   14   7   47   17    T   16   23   03   12   13   15   46   29   39   40   26   8   25   15    W   17   24   01   13   22   17   48   11   23   24   47   38   9   04   12    Th   18   24   59   14   30   19   49   23   24   54   50   9   42   10    F   19   25   57   15   39   21   51   5   5   17   24   00   22   03   10   20   08    S   20   26   54   16   47   23   52   17   13   07   15   10   58   05   14    Su   21   27   52   17   56   25   52   29   15   24   14   22   28   11   37   8   03   14    M   22   28   50   19   05   27   52   11   9   23   21   40   12   15   01	$\begin{bmatrix} 2 \\ 2 \end{bmatrix}$
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	1 2
T   9   16   20   4   20   2   10   3 m   02   54   20   03   3   55   30   W   10   17   18   5   27   3   59   16   11   23   23   00   14   4   33   28   Th   11   18   15   6   35   5   24   28   57   07   26   5   12   26   F   12   19   13   7   42   7   48   11   26   13   38   5   50   24   S   13   20   10   8   50   9   17   23   41   20   50   6   29   21   Su   14   21   08   9   57   11   45   5 √9 46   23   26   21   02   7   08   8   19   13   M   15   22   26   11   05   13   46   17   45   33   14   7   47   17   T   16   23   03   12   13   15   46   29   39   40   26   8   25   15   W   17   24   01   13   22   17   48   11   23   24   54   50   9   42   10   F   19   25   57   15   39   21   51   5 × 17   24   00   22   03   10   20   08   S   20   26   54   16   47   23   52   17   13   07   15   10   58   05   14   M   22   28   50   19   05   27   52   11   9   23   21   40   12   15   01   15   10	1 2 1
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Su 14 21 08 9 57 11 45 5 \(\frac{1}{2}\)3 26 21 02 7 08 8 19 13  M 15 22 06 11 05 13 46 17 45 33 14 7 47 17  T 16 23 03 12 13 15 46 29 39 40 26 8 25 15  W 17 24 01 13 22 17 48 1132 47 38 9 04 12  Th 18 24 59 14 30 19 49 23 24 54 50 9 42 10  F 19 25 57 15 39 21 51 5 \(\frac{1}{2}\)17 13 07 15 10 58 05 14  Su 21 27 52 17 56 25 52 29 15 24 14 22 28 11 37 8 03 14  M 22 28 50 19 05 27 52 11 γ 23 21 40 12 15 01	
Su 14 21 08 9 57 11 45 5 12 4 14 22 28 11 37 8 03 14 M 15 22 08 19 05 27 52 11 γ 23 21 40 12 15 01 14 15 15 10 18 14 15 15 10 18 14 15 15 10 18 14 15 15 16 16 16 16 16 16 16 16 16 16 16 16 16	
M   15   22   06   11   05   13   46   17   45   33   14   7   47   17   16   23   03   12   13   15   46   29   39   40   26   8   25   15   15   W   17   24   01   13   22   17   48   11	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
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$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	1 20 5 3 5 6 5 8 4
F   19   25   57   15   39   21   51   5 $\pm$ 17   24   00   22   03   10   20   08   8   20   26   54   16   47   23   52   17   13   07   15   10   58   05   14   14   15   15   16   15   16   15   16   16	3 5
Su 21 27 52 17 56 25 52 29 15 24 14 22 28 11 37 8 03 14 M 22 28 50 19 05 27 52 11 \( \tau 23 \)	5
Su 21 27 52 17 56 25 52 29 15 24 14 22 28 11 37 8 03 14 M 22 28 50 19 05 27 52 11 $\Upsilon$ 23 21 40 12 15 01	3 4
<b>M</b> $ 22 28$ 50 19 05 27 52 11 $\gamma$ 23 21 40 12 15 01	
M   22   28   50   19   05   27   52   11   \( \pi 23 \)   21   40   12   15   01   T   23   29   48   20   14   29   46   23   42   28   52   12   54   7   58	
T	5 3
	5 3 7 3 9 3 1 2 5 2
W   24   0m/46   21   23   1m/50   6 8 14   35   23 04   13 32   56	9) 3
Th 25 1 43 22 32 3 46 19 04 42 17 14 10 53	1 2
	3 2
Su 28 4 37 26 01 9 31 29 50 25 04 23 54 16 05 7 46 14	7 20 1
M   29   5   35   27   11   11   23   14 = 15   11   24   07   16   43   44	9 1
T  30  6 33 28 20 13 15 27 37  18  20 17 21  42	2 1
$\mathbf{W}   31   7   31   29   30   15   05   14 0.07   25   33   17   59   39  $	4) C

## EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich August, 1921

Full Moon August 18th, 3:28 P. M., # 25° 7'
Declination of the Planets

Da	y	s.	т.		O N		.N		ğ N		D		N		N t		S	II.	3		Ý N
		H. 8	M.	0	,	0	/	0	1	0	/	0	/	0	,	O	,	0	/	0	
M	1	8	38 42	18	06	21	02	20	57	18	29	5	03	5	35	21	26	9	01	16	54
TW	3		42	17 17	51 35	21 21	$\begin{array}{c} 07 \\ 12 \end{array}$	21	00	16 14	55 09	4	01 58		30 26		18 10		$\frac{02}{02}$		54 53
Th	4		50	17	20	21		21	00	10	24	T	56		21		02		03		53
F	5		54	17	04	21		20	57	5	59		53		16	20	54		04		52
S	6			16	47			$\frac{1}{20}$	52	1	17		51		12		45		05		51
Su	7	9		16	31	31		20	44		s22	4	48	5	07	20	37	9	06	16	51
M	8		06		14			20	33	7			45		03		28		07		50
TW	9		10	15	57	21		20	20		28		43	4	58		19		08		50 49
'I'h	11		14 18	15 15	39 22	21 21		20 19	46	14 16	33 49		40 37		53 48		10 01		$\begin{array}{c} 09 \\ 10 \end{array}$		49
E	12		22	15	04			19	25	18	14		35		44	10	52		11		47
S	13		26	14				19		18	45		32		39	10	43		12		47
Su	14	9	29	14	28			18	35		24	4	29	4	34	19	33	9	12	16	46
M	15		33	14	09		26		07	17	15		27		29		24		13		46
T	16		37	13	50			17	36		20		24		25		14		14		45
W Th	17 18		41 45	13 13	31 12	21	21 18	17	03 28	12 9	48 44		21 18		20 15	10	04 54		15 15		45 44
3	19		49	12	53		14		52°	6	17		16		10	10	44		16		44
S	$\overset{10}{20}$		<b>5</b> 3	12	33			15	13	2	33		13		05		34		17		43
Su	21	9	57	12	13		04		34		√ <b>1</b> 8	4	10	4	00	18	23	9	18	16	42
M	22	10	01	11	53			13	53	5	08		07	3	55		13		19		41
T	<b>2</b> 3		05	11	33	20		13	11	8	49		04		50	-4 (24)	02		20		41
W	24 25		09 13	11 10	13 52	20 20		12 11	28 44		10	3	02 59		45	17	51		21 22		40
F	26		17	10	31	20		10	59		00 09	3	56		40 35		40 29		22		40 39
S	27		21	10		20	21	10		18	24		53		30		18		23		39
Su	<b>2</b> 8	10	<b>2</b> 5	9		20	12	9	<b>2</b> 8	18	34	3	50	3	25		07	9	24	16	38
M	29		29	9		20	03	8		17	34		47			16	56		25		37
T	30		33	9			52	7		15	23		44		15		44		26		36
W	31		36	8	45	19	42	7	09	12	08		42		10		33		27		36

## EPHEMERIS OF THE PLANETS' PLACES

## Calculated for Mean Noon at Greenwick

SEPTEMBER, 1921 New Moon September 2nd, 3:33 A. M., in mg 9° 7' Longitude of the Planets

Da	y	n	4	8		ξ 11	_	,	D SC	T,	_	2. 11		S	_	¥ →	_	S		<b>=</b>	
Th F S Su M T	4 5	9 10 11 12	29 28 26 24 22 20	1 3 4 5	51 01 12 22	16 18 20 22 23	27 12 56	29 141 29 13: 28	18 m25 20 ≈54 02 m43	26	32 40 47 55 02 09	24 25	58 10 23 36	18 19 19 20	16 54 32 10		34 32 30 28 26		26 28 30 32 34 36	20 19	06 03 00 57 54 50
	8 9 10 11 12	18 19	14 12 10	8	05 16 27 38	29 0 <u>←</u> 2 3 5	=39 19 54 29	7 20 2 14 26	# 48 18 733 36		16 24 31 39 46 53 01		15 27 40 53 06	23 23 24 24 25	42 20		23 20 18 16 13 11 09		38 40 42 44 46 48 50		47 44 41 38 35 31 28
Th F Su	15 16 17 18 19	22 23 24 25 26	03 01 00	17 18 19	12 24 35 47 59	11 13 14 16	10 41 12 41 10	14 26 8 20	<ul><li>€09 08 12 γ25</li></ul>		8 15 23 30 38 45 53	28	45 58 11 24	28 28 29 0m	30 08 45 23	6	04 01 59	15	52 54 56 58 00 01 03		25 21 18 15 12 08 05
F	22 23 24	29 0≠ 1 2	56 55 =53 52	28 29 0m	35 47 00 12	20 21 23 24 25	51 13 35	29 12 25 9 24	04 Ⅲ21 55 549		08 15 23 30	0=0	03 16 28 41 54 =07 20	1 2 3 4	26		50 48 46 44 42 40 38		05 07 08 10 12 13 14	18	02 59 56 53 50 47 43
W Th F		5	48	2 4 5	02	28 29 <b>0</b> 1	48	8	m <sub>0</sub> 1	29	53 00 8		33 46 59	6	41 18 56		36 34 32		15 17 19		40 37 34

## EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich September, 1921

Full Moon September 17th, 7:20 A. M., in ★ 23° 52
Declination of the Planets

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h	1	н. 10	M. 40 44	° 8	23 02	0 19 19	30	6	22	8 3	03 27	3	39	3	05	0 16	21	9	28 29	。 16	35 35
	3		48	7	40	19	19 06	5 4	36 49	18	18		36 33	2	00 55	15	10 58		30		34
u [	5		52 56	7 6	18 55	18 18	53 40	4 3	02 15	5 9	52 58		30 27		50 45		46 34		31 32		34 33
ĺ	_	11	00	6	33	18	26	2	29	13	24		24		40		22		33		33
7	7	11	4	6	11		11	1	43	16	0	3	21	2	35	15	10	9	33	16	32
h	8		08 12	5 5	48 26	17 17	56 41	0	57 11	17 18	43 31		18 15		30 25	14	57 45		34 35		32 31
	10		16	5 5	03	17	25	0 s	$\frac{11}{34}$	18	25		10 12		29 19		33		36		31
u	11		20	4	40	17	08	1	19	17	29		10		14		20		37		30
[	12		24	4	17	16	51	2	04	15	47		07		09		07		38		30
ı	13		28	3	54	16	34	2	48	13	26		04		04	13	55		39		29
7	14	11	32	3	31	16	16	3	32	10	32	3	01	1	59	13	42	9	40	16	28
h	15		36	3	08	15	57	4	15	7	12	2	58		54		29		40		27
ı	16 17		40 44	2 2	45 22	15 15	38 19	5	58 41	3	33 17		55 52		49 44		16 03		41 42		27 26
u	18		47	1	59	14	59	6	22	4	09		49		38	12	50		43		26
1	19		51	1		14	39	7	03	$\bar{7}$	53		46		33		37		43		25
ľ	20		55	1	12	14	18	7	44	11	19		43		28		24		44		25
7	21	11	59	0	49	13	57	8	24		17	2	40	1	23	12	11	9	45	16	24
h	22	12	03	0	26	13	35	9	03	16	35		37		18	11	57		46 47		24 23
	$\begin{vmatrix} 23 \\ 24 \end{vmatrix}$	}	07 11	0	02 21	13 12	14 51	9	42 20	18 18	02 30		34 31		13 07		44 30		48		23
u	25		15	0.5	45	12	$\frac{31}{29}$	10	57	17	53		28		02		17		49		22
1	26		19	ĭ	08	12	06	11	33	16	09		26	0	57		03		50	ĺ	22
6	27		23	1	31	11	42	12	09	13	22		23		52	10	49		50		21
7	28	12	27	1	55		18		43	9	43	2	20	0	47	10	36	9	51	16	21
h	29  30		31 35	2 2		10 10	54	13 13	17	5	25 47		17 14		42 37		22 08		51 52		20 20
	100		33	2	41	ITO	30	13	50	0	41		14		31	1	00		04		20

## EPHEMERIS OF THE PLANETS' PLACES Calculated for Mean Noon at Greenwich

**OCTOBER**, 1921

New Moon October 1st, 0:26 P. M.,  $\simeq$  7° 47′ New Moon October 30th, 11:38 P. M., in  $\mathfrak{m}$  7° 1′ Longitude of the Planets

	1 0	Ι φ	Ιğ	D	<u> </u>	2.5	1 8	1¥t	lΨ	B
Day		m	m		mg		m	×	હ	
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Su 9 M 10 T 11	14 40 15 39 16 39 17 38 18 37	17 27 3 18 40 7 19 54	9 52 10 49 11 40 12 31 13 15	10 <i>v</i> 952 22 56 451	13 21 28 35	43 55 3 08 21 34	11 57 12 34	17 16 14 12 11	30 32 33 35 36	17 5
S   15 Su   16 M   17 T   18	21 36 22 35 23 35 24 34 25 34	3 23 34 5 24 48 5 26 02 4 27 16 4 28 29	15 55	4 \cdot 50 17 16 29 56 12 \times 49 25 56	57 1 04 11 18 25	12 25 37 50 5 02	15 41 16 18 16 55 17 32 18 10 18 47 19 24	06 05 03 02 01	39 40 41 42 43	4. 4. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6.
Su 22 Su 23	28 33 29 33 0 m 33 1 32 2 33	3 26 3 4 40 2 5 54 2 7 09	15 48 15 27 14 48 14 09	6536 20 32 4038 18 52 3m11	46 53 2 00 07 14	40 52 6 05 17 30	20 01 20 39 21 16 21 53 22 30 23 07 23 44	57 56 55 54 53	46 47 48 49 50	
F 28 S 29 Su 30 M 31	5 32 6 32	9 38 2 10 52 2 12 07 2 13 21	8 40	1=54 16 10 0m15 14 07	34 41	7 06 18	24 21 24 58 25 35 26 12	50 49	52 52	16

## EPHEMERIS OF THE PLANETS' PLACES

## Calculated for Mean Noon at Greenwich October, 1921

Eclipse Full Moon October 16th, 10:59 P. M., in φ 23° 3'
Declination of the Flanets

Da	у	S.	T.	0	9 1	2	1 5		ş S		8	Ţ		2	t	á	S	J.			N Ā
S Su M T W Th	1 2 3 4 5 6		M. 39 43 47 51 54 58	o 3 3 4 4 5	05 28 51 15 38 01	0 10 9 9 8 8 7	05 40 15 49 24 57	0 14 14 15 15 16 16	22 53 23 51 19 45	3 8 12 15 17 18	52 13 00 00 06 15	° 2	11 08 05 02 00 57	0	32 26 21 16 11 06	9	54 40 26 12 58 44	9	52 53 54 55 55 56	° 16	20 19 19 18 18 18
S Su M T W	8 9 10 11 12	13	02  06 10 14 18 22 26	5 5 6 6 6 7 7	24  47 10 33 55 18 40	7 6 6 5 4	16	17	10 33 55 16 34 51 06	16 14	27 46 18 08 24 11 38	1	54 51 48 45 43 40 37	0	01 s04 09 14 19 24 29	8	30 16 02 48 33 19 05	9	57 58 58 59 59 00 00	16	17 16 16 15 15 15
F S Su M T W Ch	14 15 16 17 18 19 20	13	30 34 38 42 46 50 54	8 8 9 9 10	03 25 47 09 31 53 15	4 3 2 2 1 1	20 53 24 56 28 59 31	19 19 19	19 29 37 43 45 44 40	0 31 6 10 13 16 17	51 51 26 35 05 46	1	34 31 29 26 23 21 18	0	34 39 44 49 54 59 04	6 5	50 36 21 07 53 38 24	10	01 02 02 03 03 04	16	14 14 14 14 13 13
E S Su M C N Ch	21 22 23 24 25 26 27	13 14	58 01 05 09 13 17 21	10 10 11 11 12 12 12	36 58 19 40 01 21 42	1 0 0 0 0 1 1	02 33 05 24 53 22 51	19 19 18 18 17	32 20 04 44 19 50 16	18 16 14 10 6 2	28 07 40 12 52 52 27	1	15 13 10 07 05 02 00	1	09 14 18 23 28 33 38	5 4 3	09 54 40 25 11 56 42	10	04 04 05 05 05 05 06	16	13 12 12 12 12 12 12 11
	28 29 30 31	14	25 29 33 37	13 13 13 14	02 22 42 02	2 3 3	20 49 18 46	15 15	39 58 15 31	6 10	31 31 52	0	57 55 52 50	1	42 47 52 57	3 2	27 12 58 43	10	06 06 06 07	16	11 11 11 11

## EPHEMERIS OF THE PLANETS' PLACES

## Calculated for Mean Noon at Greenwich

November, 1921
New Moon November 29th, 1:25 P. M., in \$\frac{1}{2}\$ 6° 49'
Longitude of the Planets

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Th				17			49			51		09			28			46		54		46
F					19		46					13			28			46		54		42
S				19			00			46		19			29			45		55		39
Su				20			15					25			29			45		56		36
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M	7	14	33				52			47	3	32			0-				15	56		33
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		25		5	47	6	27	3	5	07		37		58		15		43		59		5
				7	02	7	40	17		15			11			52		43		59		5!
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W	23	0 \$	41	12	02	12	54	13	m			04						44		58		3 3 3
Th			41	13	18	14	17	27	i	57					10			45		58		3
F	25		42	14	33	15	44	11	_	51		14			11			45		57		3
S	26	3	43	15	48	17	10	25		39		19			12			46		57		3
Su	27	4	43	17	04	18	39			17		24			12			47		57		2
	28	5	44	18	19	20	07	22		46	5	29	12	43	13	19	5	47	15	57	15	2
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## SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES

## Calculated for Mean Noon at Greenwich

NOVEMBER, 1921

Full Moon November 15th, 1:39 P. M., in 8 22° 40′ Declination of the Planets

Da	y	S. '	r.	9		20,02	2		8	2	3	Į N		2 5		ð		1 <del>4</del> S		¥ 1	<u>₹</u>
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r	1	14	41	14	21	4	15	13	46	16	23	0	47	2	01	2	28	10	07	16	11
W	2		45		40	4	44			17	56		45		06		14		07		10
rh.	3		49		59	5	13			18	31		42		10	1	59		07		10
F	4		53	15	18	5	41			18	10		40		15		45		08		10
s Su	5		57		36	6	10			16	57		37		20		30		08		10
Su	6	15	01		55	6	38	10	40	14	59		35		24		15		08		10
M	7	15	05	16	13	7		10	17	12	25	0	33	2	29	1		10	08	16	10
r	8		09		30	7	34		00	9	21		31		33	0	46		08		10
W	9		12		48	8	02	9	49	5	55		28		38		31		09		10
Γh	10		16	17	05	8	30	9	43	2	12		26		42		17		09		09
Ţ	11		20		21	8	58	9	42		139		24		46		02		09		09
3	12		24		38	9	25	9	47	5	31		22		51	2	12		09		09
Su	13		28		54	9	52	9	56	9	14		19		55		27		09		09
M	14	15	32	18	10	10		10		12	36	0	17	2	59	0		10	09	16	09
r	15		36		26	10		10	25	15	24		15	3	04		56		09		09
V	16		40		41	11	13			17	25		13		08	1	10		09		09
Fh	17		44		56	11	39			18	28		11		12		25		09		09
F	18		48	19	10	12		11	31	18	24		09		16		39		08		09
Su	19		52			12	31	11		17	12		07		20		53		08		09
Su	20		56		38	12	56	12	24	14	57		05		24	2	08		08		09
M	21	16	00	19	52	13	21	12	53	11	48	0	03	3	28	2		10	08	16	09
r	22		04	20		13		13	22	7	58		01		32		36		08		09
W	23		08			14		13	52	3	42	5	01		36		51		07		09
<b>r</b> h	24		12		30	14		14	22		s <b>45</b>		03		40	3	05		07		09
P	25		16		42	14		14	53	5	08		05		44		19		07		09
8	26		19			15		15	24	9	13		06		48		33		07		09
Su	27		23	21	05	15	45	15	54	12	46		08		52		48		06		09
M	<b>2</b> 8	16	27	21		16	07	16		15	35	0	10	3	56	4		10	06	16	10
T	29		31			16		16		17	31		12		59		16		06		10
W	30		35		37	16	51	17	25	18	30		13	4	03		30		06		10

## SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES

## Calculated for Mean Noon at Greenwich

DECEMBER, 1921
New Moon December 29th, 5:39 A. M., in 1/3 7° 0' Longitude of the Planets

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Da	У		<u> </u>	11	l	11	l_		V3		_	=	_	==	=	)	€	8	<u>ا</u>	=	<u>}=</u>
Th F Su M T	4 5	9 10 11	47 48 49 49 50	23 24 25 27	20 35 50	24 26 27 29 0 \$\equiv 1	38 09 41 13 45	14 26 8, 20	50 21 37 21 36 36 €26	5	44 48 53 57 01 05	13	32 41 51	15 15 16 16 17	08 44 20 56 32 08				55 55 55 54 54 53		111000
W Th F Su M	7 8 9 10 11 12	14 15 16 17 18	52 53 54 55 56 57	29 0 \$ 2 3 4 5	37 52 07 22 38 53	3 5 6 8	50 23 56 28 01 34	14 26 8 20 3 16		6	09 13 17 21 25 29	14	09 18 27 36 44 53	18 19 19 20 21 21	44 20 56 32 08 44 20	5		15			The state of the Man Man
Th F S Su M	15 16 17 18 19	23 24 25 26 27	00 01 02 03 04	9 10 12 13 14	40 55 11 26 41	16 17 19 20 22	15 48 22 55 29	28 12 27 11 26	N50		36 40 43 46 49 52 55		18 26 34 42 50	23 24 24 25 25	55 31 06 42 18 54 29		05 06 07 09 11 13 14		47 47 46 45 44 43 42		
W Th F S Su M T	21 22 23 24 25 26 27	1 2 3 4	908 09 10 11 12	17 18 19 20 22 23 24	27 43 58 14 29	27 28 07 1 3	12 47 22 57 32	8 22 5 19 2	50	7	58 01 04 06 09 11 13		19 26 33 40	27 28 28 29 0π	05 40 16 50 26 101 37		16 18 19 21 23 25 27		40 39 37 36	13	
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## EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich DECEMBER, 1921

Full Moon December 15th, 2:50 A. M., in II 22° 37'
Declination of the Planets

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	2		43		56	17	33	18	22	17	37		16		10	_	58		05		10
	3		47	22	04	17		18	50	15	55		18		14	5	11		05		10
a	4		51		13	18		19	18		32		20		17		25		04		10
- 1	5		55		21	18		19	44	10	38		21		21		39		04		11
	6		59		28	18	52	20	10	7	19		22		24		53		03		11
7	7	17	03	22	35	19		20	35	3	42	0	24	4	28	6	07	10	03	16	11
$\mathbf{h}$	8		07		42	19		20	59		105		25		31		20		03		11
	9		11			19		21	22	3	56		27		34		34		02		11
	10		15		54	20		21	44	7	42		28		37		47		02		12
u	11		19		59	20		22	05	11	13		29		41	7	01		01		12
	12		23	23	04	20	34	22	24		18		30		44		14		01		12
	13		27		08	20	49	22	43	16	42		32		47		27		00		12
	14	17	30	23	12	21	03		01	18	13	0	33	4	50	7	41	10	00	16	12
h	15		34		16	21	17	23	18		38		34		53		54	9	59		13
	16		38		19	21	30	23	33	17	51		35		56	8	07		58		13
	17		42		21	21	43	23	47	15	53		36	~	59		20		58		13
u	18		46		23	21	55	24	00	12	55		37	5	02		33		57		13
-	19		50		25	22		24	12	9	10		38		04		46		57		14
1	20		54		26	22	17	24	23	4	55		39		07		<b>5</b> 9		56		14
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h	22	18	02		27	22		24	40	3	58		41		12		25		54		15
	23		06		27	22		24	47	8	06		42		15		37		54		15
	24		10		26	22	52		52	11	46		42		17		50		53		16
u	25		14		25	23		24	56		46		43		20	10	03		52		16
L	26		18		23	23		24		16	58		44		22		15		51		16
	27		22		21	23	12	25	00	18	16		44		24		27		51		17
7	28	18	26	23	18	23	17	24	59	18	38	0	45	5	27	10	40	9		16	17
h	29		30		15	23	21	24		18	05		45		29		52		50		17
	30		34		11	23		24		16	40		46		31	11	04		49		18
	31		37		07	23	28	24	50	14	32		46		33		16		49		18

## TABLE OF PROPORTIONAL LOGARITHMS

Min.					Ho	urs or	Degr	ees ·					
13.1584 .35802 .0792  9031  7781  68 12  6021  5351  4771  4260  3802  3338  13.1584 .35730  .0756  07  63  6798  09  41  62  52  3795  82  22  23.573  3660  0720  8983  45  84  5997  30  55  44  88  75  31  68  22  25573  3660  0720  8983  45  84  5997  30  55  44  88  75  31  68  23  55  68  06  68  32  68  68  68  68  68  68  68  68  68  68	Min. 0		1	2	3	4	5	6	7	8	9	10	11
15.1584   .5730   .0750   .078   .091   .41   .62   .52   .5795   .82   .22   .8575   .3660   .0720   .8983   .45   .84   .5997   .30   .55   .44   .88   .75   .53   .6812   .3550   .0685   .59   .28   .69   .85   .20   .44   .36   .80   .68   .45   .5653   .3522   .0649   .8055   .10   .55   .75   .75   .10   .35   .28   .73   .62   .24   .54   .54   .54   .0614   .8912   .7692   .6741   .5961   .5300   .4726   .4220   .3766   .3355   .3528   .0511   .42   .39   .6698   .25   .69   .4699   .419   .52   .49   .29   .49   .29   .49   .29   .49   .29   .49   .29   .49   .29   .29   .49   .29   .29   .20   .24   .29   .29   .20   .21   .29   .29   .20   .21   .20		5841	1.38021	1.07921	90311	77811	68121	60211	5351!	47711	42601	38021	3388
22.8573   3660   .0720   8983   45   84   5997   30   53   44   88   76	13.1	584	.3730	.0756	07		6798	09		62	52	3795	82
Section   Content   Cont					8983		84	5997	30	53	44	88	
\$\frac{1}{5}\frac{5}{5}\frac{3}{3}\frac{5}{5}\frac{2}{2}\frac{9}{2}\frac{9}{2}\frac{7}{1}\frac{1}{5}\frac{5}{6}\frac{1}{3}\frac{5}{6}\frac{2}{3}\frac{3}{6}\frac{2}{3}\frac{6}{6}\frac{3}{3}\frac{5}{6}\frac{6}{3}\frac{3}{3}\frac{5}{6}\frac{6}{3}\frac{3}{3}\frac{5}{6}\frac{6}{3}\frac{3}{3}\frac{5}{6}\frac{6}{3}\frac{3}{3}\frac{5}{6}\frac{6}{3}\frac{3}{5}\frac{5}{6}\frac{3}{3}\frac{5}{6}\frac{2}{3}\frac{3}{6}\frac{2}{3}\frac{7}{6}\frac{9}{6}\frac{4}{9}\frac{5}{2}\frac{9}{9}\frac{1}{1}\frac{1}{1}\frac{2}{1}\frac{9}{9}\frac{9}{9}\frac{9}{4}\frac{4}{9}\frac{2}{3}\frac{9}{6}\frac{9}{4}\frac{4}{9}\frac{2}{9}\frac{9}{4}\frac{9}{9}\frac{9}{4}\frac{9}					59	28	69	85		44	36	80	68
6													
6									5300			3766	
7         3.133         3323         0.0546         65         57         12         37         79         08         04         52         42         39         6698         25         69         4699         49         45         36         38         29           10         2.1584         1.3135         1.0444         8786         7604         6670         5902         5249         4682         4180         3730         323         16           11         .1170         .3071         .0411         73         7587         56         5890         39         73         72         23         16           12         .0792         .3010         .0378         51         70         42         78         29         64         64         16         10           15         .9844         .90         .3318         86         35         14         55         09         46         49         02         3297           16         .9854         .2775         .0248         61         01         6587         22         89         29         38         88         84           17         .9979         .27											12		
8   2.555   3.258   0.611   42   39   6698   25   69   4699   4196   45   36   38   29   10   2.1584   1.3133   1.0444   8796   7604   6670   5902   5249   4682   4180   3730   3323   11   1.1170   3.071   0.0411   73   7587   56   5890   39   73   72   23   16   12   0.0792   3.010   0.0378   51   70   42   78   29   64   64   61   10   13   0.0444   2.950   0.0345   28   552   28   66   19   55   56   69   0.3   15   1.9823   1.2833   1.0280   8635   7518   6600   5843   5199   4638   414   3695   3291   15   1.9823   1.2833   1.0280   8635   7518   6600   5843   5199   4638   414   3695   3291   16   9.954   2.2775   0.0248   61   0.10   6587   32   89   29   33   88   84   17   9.279   2.719   0.216   39   7484   73   20   79   20   25   81   78   78   78   78   78   78   78	7 3	133											
10													
10													
11					8796			5902	5249				
122   0.0792   3.5010   0.378   51   70   42   78   29   64   64   16   16   13   0.144   2.950   0.345   28   52   28   66   19   55   56   09   0.3   14   0.122   2.891   0.313   0.6   35   14   55   0.9   46   49   0.2   3.297   151   1.98231   1.2833   1.2833   1.2833   0.185   1.7   67   59   0.5   68   17   9.279   2.719   0.216   39   74.84   73   20   79   20   2.5   81   78   18   9.031   2.663   0.185   17   67   59   0.9   69   11   17   74   71   71   71   71   71													
13													
14   0.122   2.891   0.313   0.66   5.5   1.4   5.5   0.9   4.6   4.9   0.2   3.291     15   1.9823   1.2833   1.0280   8683   7.518   6600   5.843   5.199   46.8   4.14   36.95   3.291     16   .9542   2.775   0.248   6.1   0.1   6.587   3.2   8.9   2.9   3.3   88.   84.     17   9.279   2.719   0.216   3.9   74.84   7.3   20   7.9   20   2.5   8.1   7.6     18   .9031   2.663   0.185   1.7   6.7   5.9   0.9   6.9   1.1   1.7   7.4   7.1     19   .8796   2.607   0.153   8.595   5.1   4.6   5.797   5.9   0.3   0.9   6.7   6.5     20   1.8573   1.2553   1.0122   8.573   7.434   6.532   5.786   5.149   4.594   4.102   3.660   3.258     21   .8361   2.499   0.091   5.2   1.7   1.9   7.4   3.9   8.5   4.094   5.5   5.5     22   .8159   .2445   0.061   3.0   0.1   0.5   6.3   2.9   7.7   8.6   4.6   4.6     23   .7966   2.2393   0.030   0.9   7.384   6.492   5.2   2.0   6.8   7.9   3.9   3.5     24   .7781   .2341   1.0000   8487   6.8   7.8   4.0   1.0   5.9   7.1   3.2   3.3     25   1.7604   1.2289   0.9970   8466   7.351   6.465   5.729   5.100   4.551   4.063   3.625   3.227     26   .7474   .2239   .9881   0.3   0.2   2.5   5.695   7.1   2.5   4.0   0.4   0.8     27   .7270   .2188   .9910   2.4   18   3.8   0.6   8.1   3.4   4.8   1.1   1.4     28   .7112   .2139   .9881   0.3   0.2   2.5   5.695   7.1   2.5   4.0   0.4   0.8     29   .6960   .2090   .9852   8.382   7.286   1.2   8.4   6.1   6.   3.2   3.597   0.1     31   .6670   .1993   .9794   4.1   5.4   8.5   6.2   4.2   4.499   1.7   8.3   8.9     32   .6532   .1946   .9766   2.1   3.8   7.2   5.1   3.2   9.1   0.7   7.8     33   .6573   .1627   .9570   7.9   2.8   8.2   7.4   6.1   6.   3.2   5.590   3.195     34   .6269   .1852   .9708   8.299   7.9   6.6   6.8   7.7   7.9   4.9   5.7   7.9   4.9   5.7   7.9   4.9   5.7   7.9   4.9   5.7   7.9   4.9   5.7   7.9   4.9   5.7   7.9   4.9   5.7   7.9   4.9   5.7   7.9   4.9   5.7   7.9   4.9   5.7   7.9   4.9   5.7   7.9   4.9   5.7   7.9   4.9   5.7   7.9   4.9   5.7   7.9   4.9   5.7   7.9   4.9   5.7													
15   1.9823   1.2833   1.0280   8683   7518   6600   5843   5199   4638   4141   3695   3291     16   9542   2.2775   .0248   61   01   6587   32   89   29   33   88   84     17   9279   2.2719   .0216   39   7484   73   20   79   20   25   81   78     18   9.031   .2663   .0185   17   67   59   09   69   11   17   74   71     19   8796   .2607   .0153   8595   146   5797   59   03   09   67   65     20   1.8573   1.2553   1.0122   8573   7434   6532   5786   5149   4594   4102   3660   3258     21   .8361   .2499   .0091   52   17   19   74   39   85   4094   53   52     22   .8159   .2445   .0061   30   01   05   63   29   77   86   46   46     23   .7966   .2393   .0030   09   7384   6492   52   20   68   79   39   39     24   .7781   .2341   .0000   8487   68   78   40   10   59   771   32   33     251   .7604   1.2289   .09970   8466   7351   6465   5729   5100   4551   4063   3625   3227     26   .7434   .2339   .9940   45   .55   51   18   5090   42   .55   18   20     27   .7270   .2188   .9910   24   18   38   06   81   34   48   11   14     28   .7112   .2139   .9881   03   02   .25   5695   71   .25   40   04   08     29   .6960   .2090   .9852   8382   7286   12   84   61   16   32   3597   01     30   .16812   .12041   .09823   8361   7270   6398   5673   5051   4508   4025   3590   315     31   .6670   .1993   .9794   41   54   85   662   42   4499   17   83   89     32   .6532   .1946   .9765   21   38   72   51   32   91   10   77   83     33   .6398   .1899   .9737   00   22   59   40   23   20   27   07   76     34   .6269   .1852   .9708   8259   710   66   62   42   4499   17   83   89     35   .6143   .11806   .0.9680   8259   710   63   68   62   42   4499   17   83   89     35   .6143   .1806   .0.9680   8259   710   63   68   62   42   4499   17   83   89     35   .6143   .1806   .0.9680   8259   710   66   62   42   4499   47   49   47   49   47   49   47   49   47   49   47   49   47   49   47   49   47   49   47   49   47   49   47   49   47   49   47   49   47   49   47   49   47													
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21       .8361       .2499       .0091       52       17       19       74       39       85       4094       53       52         22       .8159       .2445       .0061       30       01       05       63       29       77       86       46       46         23       .7966       .2393       .0030       09       7384       6492       52       20       68       79       39       39         24       .7781       .2341       .0000       8467       7351       6465       5729       5100       4551       4063       3625       322         26       .7434       .2239       .9940       45       55       51       18       5090       42       55       18       20         27       .7270       .2188       .9910       24       18       38       06       81       34       48       11       14         28       .67112       .2139       .9881       03       02       25       5695       71       25       40       04       08         30       1.6812       1.2041       .9823       8361       7270       6398       5673													
22       .8159       .2445       .0061       30       01       05       63       29       77       86       46       46         23       .7966       .2393       .0030       09       7384       6492       52       20       68       79       39       39         24       .7781       .2341       1.0000       8487       68       78       40       10       59       71       32       33         25       1.7604       1.2289       .9940       45       55       51       18       590       42       55       18       22       77       7270       .2188       .9910       24       18       38       06       81       34       48       11       14       28       .7112       .2139       ,9881       03       02       25       5695       71       25       40       04       08         29       .6960       .2090       .9852       8382       7286       12       84       61       16       32       3597       30         31       .6670       .1995       .9794       41       54       85       62       24       244949       17													
23													
24         .7781         .2341         1.0000         8487         68         78         40         10         59         71         32         33           251.7604         1.22890,9970         8466         7351         6465         5729         5100         4551         4063         3625         3227           27         .7270         .2188         .9910         24         18         38         06         81         34         48         11         14           28         .7112         .2139         .9881         03         02         25         5695         71         25         40         04         08           301         .6812         .1.2041         .9823         8361         7270         638         5673         5051         4508         4025         3590         3195           31         .6670         .1993         .9794         41         54         85         62         42         4499         17         83         89           32         .6532         .1946         .9765         21         38         72         51         32         91         10         77         76													
25   1.7604   1.2289   0.9970   8466   7351   6465   5729   5100   4551   4063   3625   3227   26   7.7434   .2239   .9940   445   555   51   18   5090   42   555   18   20   27   7.7270   .2188   .9910   24   18   38   06   81   34   48   11   14   28   .7112   .2139   .9881   03   02   25   5695   71   25   40   04   08   29   .6960   .2090   .9852   8382   7286   12   84   61   16   32   3597   01   30   1.6812   1.2041   0.9825   8361   7270   6398   5673   5051   4508   4025   3590   3195   311   .6670   .1993   .9794   41   54   85   62   42   4499   17   83   89   32   .6532   .1946   .9765   21   38   72   51   32   91   10   77   83   33   .6398   .1899   .9737   00   22   59   40   23   82   02   70   76   34   .6269   .1852   .9708   8279   06   46   29   13   74   3995   63   70   351   .1431   .1806   0.9680   8259   7190   6333   5618   5003   4466   3987   3556   3164   38   .5786   .1671   .9552   39   74   20   07   4994   57   79   49   57   37   .5902   .1716   .9625   19   59   07   .5596   84   49   72   42   51   38   .5786   .1671   .9597   8199   43   6224   85   75   40   64   35   45   39   .5673   .1627   .9570   79   28   82   74   65   32   57   29   39   40   1.5563   1.1584   0.9542   8159   7112   6269   5563   4956   4424   3949   3522   3133   41   .5456   .1540   .9515   40   7097   56   52   47   15   42   15   26   42   .5351   .1498   .9488   20   81   43   41   .37   07   34   08   20   44   .5149   .1413   .9435   8081   50   18   20   18   90   19   3495   08   45   .15051   .1372   0.9409   8062   7035   6205   5509   4909   4382   3912   3488   3102   46   .4956   .1331   .9333   43   20   6193   5498   00   74   05   81   3096   47   .4863   .1209   .9305   7985   75   55   66   72   49   49   49   34   34   34   34   34													
26       .7434       .2239       .9940       45       55       51       18       5090       42       55       18       20         27       .7270       .2188       .9910       24       18       38       06       81       34       48       11       14         28       .7112       .2139       .9881       03       02       25       5695       71       25       40       04       08         29       .6960       .2090       .9852       8382       7266       12       84       61       16       32       3597       01         30       1.6812       1.20410,9823       8361       7270       6398       5673       5051       4508       4025       3590       3195         31       .6670       .1993       .974       41       54       85       62       42       4499       17       83       89         32       .6532       .1946       .9765       21       38       .503       44049       10       77       83       33       .6398       1852       .9708       8259       7190       6333       5618       5003       446       39 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>													
27         .7270         .2188         .9910         24         18         38         06         81         34         48         11         14           28         .7112         .2139         .9881         03         02         25         5695         71         25         40         04         08           29         .6960         .2090         .9852         8361         7270         6398         5673         5051         4508         4025         3590         3193         31         .6670         .1993         .9794         41         54         85         62         42         4499         17         83         89           32         .6532         .1946         .9765         21         38         72         51         32         91         10         77         83           33         .6398         .1859         .9737         00         22         59         40         23         82         02         70         76           34         .6269         .1852         .9708         8279         06         46         29         13         74         3995         63         70													
28       .7112       .2139       .9881       03       02       25       5695       71       25       40       04       08         29       .6960       .2090       .9852       8382       7286       12       84       61       16       32       3570       01         30       1.6812       1.2041       0.9823       8361       7270       6398       5673       5051       4508       4025       3590       3195         31       .6670       .1993       .9794       41       54       85       622       42       4499       17       83       89         32       .6532       .1946       .9765       21       38       72       51       32       91       10       77       83         33       .6398       .1899       .9737       00       22       59       40       23       82       02       70       76         34       .6269       .1852       .9708       8279       06       46       29       13       74       3995       63       70         35       1.6143       1.1806       0.9680       8259       7190       6333       5			2100										
29         .6960         .2090         .9852         8382         7286         12         84         61         16         32         3597         01           30         1.6812         1.2041         0.9823         8361         7270         6398         5673         5051         4508         4025         3590         3195           31         .6670         .1993         .9794         41         54         85         62         42         4499         17         83         89           32         .6532         .1946         .9765         21         38         72         51         32         91         10         77         83           33         .6398         .1859         .9787         00         22         59         40         23         82         02         70         76           34         .6269         .1852         .9708         8279         06         46         29         13         74         3995         63         70           351         .61431         .1806         .9662         19         59         07         5596         84         49         72         42         51													
30   1.6812   1.2041   0.9823   8361   7270   6398   5673   5051   4508   4025   3590   3195   313   6670   1.1993   9.794   41   54   85   62   42   4499   17   83   89   32   6.6532   1.1946   9.765   21   38   72   51   32   91   10   77   83   83   33   6398   1.899   9.737   00   22   59   40   23   82   02   70   76   76   34   6.669   1.852   9.708   8279   06   46   29   13   74   3995   63   70   35   1.6143   1.1806   0.9680   8259   7190   6333   5618   5003   4466   3987   3556   3164   36   6.6021   1.761   9.9652   39   74   20   07   4994   57   79   49   57   37   5.5902   1.716   9.9652   39   74   20   07   4994   57   79   49   57   37   5.5902   1.716   9.9652   39   74   20   07   4994   57   79   49   57   37   5.5673   1.627   9.570   79   28   82   74   65   32   57   29   39   40   1.5663   1.1584   0.9542   8159   7112   6269   5563   4956   4424   3949   3522   3133   41   5.5456   1.540   9.515   40   7097   56   52   47   15   42   15   26   42   5.5351   1.1498   9.488   20   81   43   41   37   07   34   08   20   44   5.149   1.1413   9.435   8081   50   18   20   18   90   19   3495   08   45   1.5051   1.1372   0.9409   8062   7035   6205   5509   4909   4382   3912   3488   3102   46   4.956   1.331   9.333   43   20   6193   5498   00   74   0.588   3102   46   4.956   1.331   9.333   43   20   6193   5498   00   74   0.588   3102   47   4.4682   1.209   9.305   7985   75   55   66   77   81   57   90   68   83   49   4.682   1.209   9.305   7985   75   55   56   66   72   49   49   48   65   33   55   35   35   344   1.053   9.923   10   15   06   24   35   16   68   48   65   65   4.4260   1.015   9.178   7891   00   6094   14   26   08   46   28   47   55   1.4180   1.0977   0.9153   7873   6885   6081   5403   4817   4300   3838   3421   3041   56   4102   0.9092   9.128   54   71   69   5333   08   4292   31   15   56   57   4025   0.9092   9.104   36   66   67   82   4799   84   24   08   28   58   3.3949   0.0865   9.079   18   41   45   72   89   76   17   17   10													
31       .6670       .1993       .9794       41       54       85       62       42       4499       17       83       89         32       .6532       .1946       .9765       21       38       72       51       32       91       10       77       83         33       .6398       .1899       .9737       00       22       59       40       23       82       02       70       76         34       .6269       .1852       .9708       8279       06       46       29       13       74       3995       63       70         35       1.6143       1.1806       0.9680       8259       7190       6333       5618       5003       4466       3987       3556       3164         36       .6021       .1761       .9625       19       59       07       5596       84       49       72       42       51         38       .5786       .1671       .9597       79       28       82       74       65       32       57       29       39         40       1.5663       1.1540       .9515       40       7097       56       52													
32         .6532         .1946         .9765         21         38         72         51         32         91         10         77         83           33         .6398         .1899         .9737         00         22         59         40         23         82         02         70         76           34         .6269         .1852         .9708         8279         06         46         29         13         74         3995         63         70           351.61431.1.806(0.9680         8259         7190         6333         5618         5003         4466         3987         3556         3164           36         .6021         .1716         .9652         19         59         07         5596         84         49         72         42         51           38         .5786         .1671         .9597         79         28         82         74         65         32         57         29         39           40         1.5563         1.1540         .9515         40         7097         56         52         47         15         42         15         26           42         .5351 <td></td>													
33       .6398       .1899       .9737       00       22       59       40       23       82       02       70       76         34       .6269       .1852       .9708       8279       06       46       29       13       74       3995       63       70         351.61431.1806.0.9680       8259       7190       6333       5618       5003       4466       3987       3556       3164         36.6021       .17161       .9652       39       74       20       07       4994       57       79       49       57         37.5902       .1716       .9625       19       59       07       5596       84       49       72       42       51         38.5786       .1671       .9597       79       28       82       74       66       32       57       29       39         401.5563       1.1584       0.9542       8159       7112       6269       5563       4956       4424       3949       3522       3133         41       .5436       .1540       .9515       40       7097       56       52       47       15       42       15       26 </td <td></td>													
34         .6269         1.852         .9708         8279         06         46         29         13         74         3995         63         70           351 1.61431 1.1806 0.9680         8259         7190         6333         5618         5003         4466         3987         3556         3164           36         .6021         .1716         .9625         19         59         07         5596         84         49         72         42         51           38         .5786         .1671         .9597         79         28         82         74         65         32         57         29         39           40         1.5563         1.1584         0.9542         8159         7112         6269         5563         4956         4424         394         3522         3133           41         .5456         .1540         .9515         40         7097         56         52         47         15         42         15         26         42         .5351         .1498         .9488         20         81         43         41         37         07         34         08         20           43         .5249<										ساسا			
35         1.6143         1.1806         0.9680         8259         7190         6333         5618         5003         4466         3987         3566         3164         36         6021         .1761         .9652         39         74         20         07         4994         57         79         49         57         37         .5902         .1716         .9625         19         59         07         5596         84         49         72         42         51         38         .5786         .1671         .9597         8199         43         6294         85         75         40         64         35         45         39         .5673         .1627         .9570         79         28         82         74         65         32         57         29         39           40         1.5563         1.1540         .9515         40         7097         56         52         47         15         42         15         26         42         .5351         .1498         .9488         20         81         43         41         37         07         34         08         20         44         15149         .1413         .9438													
36         .6021         1.761         .9652         39         74         20         07         4994         57         79         49         57           37         .5902         .1716         .9625         19         59         07         5596         84         49         72         42         51           38         .5786         .1671         .9597         8199         43         6224         85         75         40         64         35         45           39         .5673         .1627         .9570         79         28         82         74         65         32         57         29         39           40         1.5563         1.1584         0.9512         40         7097         56         52         47         15         42         15         26           42         .5351         .1498         .9488         20         81         43         41         37         07         34         08         20           43         .5249         .1455         .9462         01         66         31         31         28         4399         27         01         14													
37         .5902         .1716         .9625         19         59         07         5596         84         49         72         42         51           38         .5786         .1671         .9597         8199         43         6294         85         75         40         64         35         45           39         .5673         .1627         .9570         79         28         82         74         65         32         67         29         39           40         1.5663         1.1584         0.9515         40         7097         56         52         47         15         42         15         26           42         .5351         .1498         .9488         20         81         43         41         37         07         34         08         20           43         .5249         .1413         .9435         8081         50         18         20         18         90         19         3495         08           451.5051         1.1372         0.9409         8622         7035         6205         5509         4909         4382         3912         3488         3102													
38         .5786         .1671         .9597         8199         43         6294         85         75         40         64         35         45           39         .5673         .1627         .9570         79         28         82         74         65         32         57         29         39           40         1.5563         1.1584         0.9542         8159         7112         6269         5563         4956         4424         3949         3522         3133           41         .5456         .1540         .9515         40         7097         56         52         47         15         42         15         26         42         .5351         .1498         .9488         20         81         43         41         37         07         34         08         20           43         .5249         .1455         .9462         01         66         31         31         28         4399         27         01         14           44         .5149         .1413         .9435         8081         50         18         20         18         90         19         3495         08													
39         .5673         .1627         .9570         79         28         82         74         65         32         67         29         39           40         1.5663         1.1584         0.9512         8159         7112         6269         5563         4956         424         3949         3522         3133           41         .5456         .1540         .9515         40         7097         56         52         47         15         42         15         26           42         .5351         .1498         .9488         20         81         43         41         37         07         34         08         20           43         .5249         .1455         .9462         01         66         31         31         28         4399         27         01         14           44         .5149         .1413         .9435         8081         50         18         20         18         90         19         3498         00           45         1.5051         1.1372         0.9409         8062         7035         6205         5509         4909         4382         3912         3488 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>													
40   1.5663   1.1584   0.9542   8159   7112   6269   5563   4966   4424   3949   3522   3133   41   .5456   .1540   .9515   40   7097   56   52   47   15   42   15   26   42   .5351   .1498   .9488   20   81   43   41   37   07   34   08   20   43   .5249   .1455   .9462   01   66   31   31   28   4399   27   01   14   44   .5149   .1413   .9435   8081   50   18   20   18   90   19   3495   08   45   1.5501   1.372   0.9409   8062   7035   6205   5509   4909   4382   3912   3488   3102   348   3471   .1249   .9330   04   6990   68   77   81   57   90   68   83   49   .4682   .1209   .9356   23   05   80   88   4890   65   3897   75   89   48   .4771   .1249   .9330   04   6990   68   77   81   57   90   68   83   49   .4682   .1209   .9305   7985   75   55   66   72   49   82   61   77   50   1.4594   1.1170   .9227   7966   6960   6143   5456   4863   4341   3875   3455   3071   51   .4508   .1130   .9254   47   45   31   45   53   33   68   48   65   65   .4424   .1091   .9228   29   30   18   35   44   24   60   41   59   53   .4341   .1053   .9203   10   15   .06   24   35   16   63   35   53   54   .4260   .1015   .9178   7891   00   6094   14   26   08   46   28   47   55   .4102   .0903   .9128   54   71   69   .5333   08   .4292   31   15   .55   .56   .4102   .0903   .9128   54   71   69   .5333   08   .4292   31   15   .55   .56   .4025   .0902   .9104   36   66   67   82   .4799   84   24   08   28   .58   .3949   .0865   .9079   18   41   45   72   89   76   17   01   22   .5014													
41		6/3	.1627	.9570		28						29	
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45   1.5051   1.1372   0.9409   8062   7035   6205   5509   4909   4382   3912   3488   3102   46   .4956   .1331   .9383   43   20   6193   5498   00   74   05   81   3096   47   .4863   .1290   .9356   23   05   80   88   4890   65   3897   75   89   488   .4771   .1249   .9330   04   6990   68   77   81   57   90   68   83   49   .4682   .1209   .9305   7985   75   55   66   72   49   82   61   77   50   1.4594   1.1170   0.9279   7966   6960   6143   5456   4863   4341   3875   3455   3071   51   .4508   .1130   .9254   47   45   31   45   53   33   68   48   65   652   .4424   .1091   .9228   29   30   18   35   44   24   60   41   59   53   .4541   .1053   .9203   10   15   06   24   35   16   53   35   53   53   54   .4260   .1015   .9178   7891   00   6094   14   26   08   46   28   47   551   .4180   .0977   0.9153   7873   6885   6081   5403   4817   4300   3838   3421   3041   56   .4102   .0939   .9128   54   71   69   5393   08   4292   31   15   35   57   .4025   .0902   .9104   36   56   57   82   4799   84   24   08   28   88   .3949   .0865   .9079   18   41   45   72   89   76   17   01   22													
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49       .4682       .1209       .9305       7985       75       55       66       72       49       82       61       77         50       1.4594       1.1170       0.9279       7966       6960       6143       5456       4863       4341       3875       3455       3071         51       .4508       .1130       .9254       47       45       31       45       53       33       68       48       65         52       .4424       .1091       .9228       29       30       18       35       44       24       60       41       59         53       .4341       .1053       .9203       10       15       06       24       35       16       53       35       53         54       .4260       .1015       .9178       7891       00       6094       14       26       08       46       28       47         551       .4180       1.0977       0.9153       7873       6885       6081       5403       4817       4300       3838       3421       3041         56       .4102       .0939       .9128       54       71       69 <t< td=""><td></td><td></td><td>.1290</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>			.1290										
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51													
52     .4424     .1091     .9228     29     30     18     35     44     24     60     41     59       53     .4341     .1053     .9203     10     15     06     24     35     16     53     35     53       54     .4260     .1015     .9178     7891     00     6094     14     26     08     46     28     47       55     1.4180     1.0977     0.9153     7873     6885     6081     5403     4817     4300     3838     3421     3041       56     .4102     .0939     .9128     54     71     69     5393     08     4292     31     15     35       57     .4025     .0902     .9104     36     56     57     82     4799     84     24     08     28       58     .3949     .0865     .9079     18     41     45     72     89     76     17     01     22													
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54     .4260     .1015     .9178     7891     00     6094     14     26     08     46     28     47       55     1.4180     1.0977     10.9153     7873     6885     6081     5403     4817     4300     3838     3421     3041       56     .4102     .0939     .9128     54     71     69     5393     08     4292     31     15     35       57     .4025     .0902     .9104     36     56     57     82     4799     84     24     08     28       58     .3949     .0865     .9079     18     41     45     72     89     76     17     01     22													
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56     .4102     .0939     .9128     54     71     69     5393     08     4292     31     15     35       57     .4025     .0902     .9104     36     56     57     82     4799     84     24     08     28       58     .3949     .0865     .9079     18     41     45     72     89     76     17     01     22													47
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	59] .3	875	.0828	.9055	1 00	27	33	61	80	68	09	3395	16

TABLE OF PROPORTIONAL LOGARITHMS

		TABL	E OF	PRC	POR'	r Deg	AL L	UGAF	CLIP	V10		
84	12	13	14	15	16	17	18	19	20	21	22	23
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ĭl	04	57	36	36	56	93	45	11	88	77	75	82
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2 3	92	46	25	27	47	85	37	03	81	70	68	75
4	86	41	20	22	43	81	34	0999	77	66	64	72
5	2980	2635	2315	2017	1738	1476	1229	0996	0774	0563	0361	0169
6 7	74	29	10	12	34	72	25	92	70	59	58	66 63
7	68	24	05	08	29	68	21	88	66	56	55 52	60
8	62	18	00	03	25	64	17	84	63	52 49	48	57
9	56	13	2295	1998	20	60	13	80	59 0756	0546	0345	0153
10	2950	2607	89	1993	1716	1455	1209	0977	52	42	42	50
11	45	02	84	89	11	47	01	73 69	49	39	39	47
12 13	38	2596	79 74	84 79	07 02	43	1197	65	45	35	35	44
13	33	91	69	79	1698	38	93	62	42	32	32	41
14	27 2921	2580	2264	1969	1694	1434	1189	0958	0738	0529	0329	0138
15 16	15	75	59	65	89	30	85	54	34	25	26	35
17	09	69	54	60	85	26	82	50	31	22	22	32
18	03	64	49	55	80	22	78	47	27	18	19	29
19	2897	58	44	50	76	17	74	43	24	15	16	25
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21	85	47	34	41	67	09	66	35	17	08	09	19
22 23	80	42	29 23	36	63	05	62	32	13	05	06	16 13
23	74	36		32	58	01	58	28	09	01	03	10
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28	45		2198	08	36	80	38 34		88	81	83	94
29			93	03	32	76 1372	1130		0685	0478	0280	0091
30	2833		2188	1899 94	1627	68	26		81	74	77	88
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32 33	21		78 73	90 85	19	59	23 19	91	74	68	71	82
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35	2804			1875	1605	1351	1111	0883	0667	0461	0264	0076
36	2798				01	47	07		64	58	61	73
37	93				1597	43	03			54	58	70
38						39	1099			51	55	67
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## ASTRO-DIAGNOSIS—A GUIDE TO HEALING

By Max Heindel and Augusta Foss Heindel

A chapter is devoted to each of the parts of the body, and instrutions are given in reading the chart for the purpose of diagnost Also natural methods for curing diseased conditions are indicate

Of special value to those engaged in healing or nursing, wheth attached to the orthodox medical school or to the nature-cure school. The authors are recognized authorities in this field.

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## **EPHEMERIS OF PLUTO FOR 1922**

Date	Long.	Dec.	Date	Long.	Dec.
nuary 4	8° 53'R	19° N 57′		10° 5 17′	
bruary 3	8° 55 19′	20° N 2′	September 1	2.0 0	20° N 9′
arch 5	7° 55 57′	20° N 6′	October 1	11° 55 9′	
oril 4				11° 55 6'R	
ay 4	8° 55 15′D	20° N 13′	November 30	10° 5 43′	20° N 9′
me 3	8° 50′	20° N 14′	December 30	10° 55 9′	20° N 13′
dy 3	9° 55 34′	20° N 13′			

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## EPHEMERIS OF THE PLANETS' PLACES

## Calculated for Mean Noon at Greenwich

## January, 1922

New Moon January 27th, 11:48 P. M., in # 7° 18'

## Longitude of the Planets

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## EPHEMERIS OF THE PLANETS' PLACES

## Calculated for Mean Noon at Greenwich

## January, 1922

Full Moon January 13th, 2:36 P. M., in 5 22° 40'

## Declination of the Planets

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	23			19	33		17			17	53	46	3	28	25	29 30
	24			119	19		3		28		31	45	4	38 48	23 22	30
	25		16			20	49		50		15	44	4	57	21	31
	26			18	50		34		12		8 15	44 43	5 16		20	31
E.	27		24	10	35	20	18	10	35	10	10					
	28		28		19			12	58		54 0	42 6	5 16		19 16	
	29				4		45		21		42	42	5]	25]	18	32 33
	30		36						47		19	41	5	34	17	33
Tu	[31	l	40	117	31	19	9	11	<b>1</b> 3	2	41	40]	5	43]	15	03

## EPHEMERIS OF THE PLANETS' PLACES

## Calculated for Mean Noon at Greenwich

February, 1922

New Moon February 26th, 6:47 P. M., in ★ 7° 24'

Longitude of the Planets

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		53		15	0>	€27	12	34		22		54	21	31		7				5
	13			30	0	48	24	35		20	1	<b>R</b> 54	22	3		10		36		5
B   4				46				<b>8 50</b>		18		54	22	36		13		34		5
		56				R 9		24		16		53		8		16		32		4
M   6	16	57	16	16	1	8	2	П21		14		53	23	40		20		31		4
Tul 7	7 17	57	17	31	0	46	15	47	17	12	18	52	24	12	18		14		11	4
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Th 9		59						457		8	ľ	50	25	15		30		26		8
F  10	21	0	21	17	29	0	28	57		5		48		47		33		25		-
	22	0	22	32	28	3 2		N 6		3		47		18		36		23		2
Su 12	2 23	1	23	48	27	5	29			0		45	26			39		21		2
M  13	24	1	25		25		14	m27				43	27	21		43		19		6
Tu 14	4 25	2	2 26	18	3 24	1 51	29	39	16	54	18	41	27	52	18	46	14	18	11	1
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Th 16				48		34	28	36		49			28			54		14		1
F  17								<b>m27</b>					29	24		57		12		
8 18	3 29	4	1	19	20	26	25	52		42			29	55		0		11		
Su 19						32	8	<b>\$</b> 55		39		<b>2</b> 8	0 1	25		4		9		
M  20	0 1	5	3	50	18		21			36		25	0	56		7		7	10	1
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W 22		6	6		17		16			29		18		56		14		5		1
Th 23	3 4	6	7	34	16		28			25		14		25		18		3	1	1
F 24	15			49				£21		22		10		55		21		1		4
8 25		7	10	4				14		18		6		24		24		0		4
Su 26			11	19				<b>¥</b> 4	1	14			3	54		27	13	59		4
M  27	18		12		16		15				17			23		30		57		1
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## EPHEMERIS OF THE PLANETS' PLACES

## Calculated for Mean Noon at Greenwich

## February, 1922

Full Moon February 12th, 1:17 A. M., in a 22° 34'

Declination of the Planets

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Day	   8.		0	8   8	\$   D	8	3   8	B   N
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P   3		52 16	40 18	11 9	49[8 21]	37[	4[ 10[	12[ 35
3   4		55 16		51 9	28 11 38	36	4 18	11 35
3u 5		59 16		30 9	10 14 28	35	4 27	9 36
1 6	21	3   15	46 17	9 8	56 16 40	34	3 35	8 36
'u  7	21	7 15	27 16	47 8	47 18 3 0	33 6	3 17 43 9	7 16 37
W   8	1	11 15	9 16		43 18 24	32	2 52	6 37
[h 9		15 14	50 16	3 8	43 17 37	31	1[18 0]	5 38
r  10	ĺ	19 14	30 15	39 8	48 15 38	30	1 8	3 38
3 111		23 14	11 15	16 8	57 12 32	29	0 15	2 39
lu 12	Ì	27 13	51 14	52 9	10 8 34	27 5	59 23	1 39
4 13	Ì	31 13	31 14	28 9	26 4 3	26	58 31	0 40
'u 14	21	35 13	11 14	3 9	45 0 s 40 0	25 5	57 18 38 8	58 16 40
V 15		39 12	51 13	38 10	6 5 15	23	56 45	57 40
h 16		43 12	30 13	12 10	29 9 24	22	55 53	55 40
1 117	į	47 12	912	46 10	53 12 53	21	54 19 0	54 41
118		51 11	48 12	20 11	18 15 35	19]	52 7	53 41
u   19		55 11	27 11	54 11	42 17 23	18	51 14	51 42
1 20	•	59 11	6 11	27 12	6 18 16	16	50 21	50  42
'u 21	22	2 10	44 11	0 12	29 18 14 0	15 5	48 19 27 8	49 16 43
V 22		6 10	22 10	32 12	51 17 21	13	47 34	48 43
h 23	i	10 10	1 10	4 13	11/15 41/	11	45 40	47 44
1 24		14 9	38 9	36 13	29 13 22	10	43 47	45 44
25		18 9	16 9	8 13	46 10 31	8	42  53	44 45
u 26	1	22 8	54 8	40 14	1 7 15	7	40 59	43 45
1  27		26 8	32 8	11 14	14 3 41	5	38 20 6	41 46
<b>Au</b> 128	122	30 8	9 7	42114	25 0 N 1 0	3 5	36 20 11 8	40 16 46

## EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

March, 1922

New Moon March 28th, 1:3 P. M., in Υ 7° 5'

Longitude of the Planets

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W		10	8	15	4			9		33		R 3	17			20			13 <sub>R</sub>		10	3
Th		11		16			37			31		<b>5</b> 9		44		49		41		53		2
F		12		17			2					55		39		17		44		52		2
8		13			49		28			55		51		33		46		47		50		2
Su		14			4					30		47		28		13		51		48		1
M	6	15	9	21	19	18	38	11	П	25		42		23	7	41	ļ	55		47		1
Tu	7	16	9	22	34	119	21	24		43	5	<b>3</b> 8	17	17	8	8	9	58	13	45	10	1
W	8	17					4			28		34		11	8		10			44		
Th					4					39		30		5	9	3		5		43		
F	10	19			18				N.	15						30		9		42		
		20			33					12		21		53		57		12		40		CT
			9	28	48	23	37	7	m			16			10	24		15		39		P.
M	13	22	8	0 9	T 3	24	39	22	,	35		12		41	10	50	1	18		38		- 6
Tu	14	23	8	1	17	25	41	17		42	5	7	116	34	111	16	10	22	13	37	19	4
W	15	24			32					34		3			11			25		35	ĺ	4
Th	16	25	8	3	46	27	55	7	m					21		7		28		34		4
		26		5	1	29	6	21		8		54		14	12	32		32		33		4
		27		6		0 3				44		49		7	12	58		36		32		6.0
		28			31	1	32	17		54		44		0	13	22		39	1	31		
M	20	29	6	8	45	2	47	0	1/3	41	1	39	15	53	13	47	1	42		30		6.0
Tu	21	10	<mark> </mark>	110	0	14	6	113		8	4	35	15	46	114	11	110	45	113	29	19	9
	22		5	11	14	5		25		20		30			14			49		28		9
Th	23	2				6						26				58		52		27		ļ
F	24				43	8	9	19		12	ì	0.1	ì	0.4		22		55		26		
8	25	4	4		58			1				16 11		17		45		58		25		
Su	26	5	3		12			12		49		11		10		8				24		
M	27	6	3	17	27	12		24		<b>3</b> 9		7			16			5		24		
Tu	1 28	317	2	118	41	113	56	116	က	33	14	2	11/	51	116	59	111	Q	113	23	19	
	29		1	19	55	15	28	118				58			17			11		22		
		9	1	21	9	16	59	0	X.	42		53		30	17	35		14		21		1
F	31	10			24	18	33	13		0		48		32		56		17		20		1
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## EPHEMERIS OF THE PLANETS' PLACES

## Calculated for Mean Noon at Greenwich

March, 1922

Full Moon March 13th, 11:14 A. M., in mg 22° 6'

Declination of the Planets

Day   S	s. T.	O     S	♀   S	S	D   N	b S	24 S	8	<sup>現</sup>   S	Ν
H W   1 2  Th  2  F  3  S   4  Su  5  M   6		$egin{array}{cccc} 7 & 46 & 7 \ 7 & 24 & 6 \ 6 & 38 & 6 \ & 15 & 6 \end{array}$	7 13 14 6 43 14 14 14 6 44 14 5 14 14	35 3 42 7 48 10 51 11	44 0 19  39  3 34  5 55	2 5 N 0  2  4  6  7				16 46 47 48 48 49 49
Tu  7 2 W   8 2 Th  9  F  10  S  11  Su 12  M  13		$egin{array}{cccc} 5 & 5 & 3 \ 4 & 41 & 3 \ 4 & 18 & 2 \ 3 & 54 & 2 \ 3 & 31 & 3 \end{array}$	3 44 14 3 14 14 2 43 14 2 13 14 42 14	52 1 49 1 44 1 39 1 29 1 19 6 8 1	7 56 6 30 3 59	9 5 11  13  15  16  18  20	21 2 19  16 2 14  11  9  6	55	8 31 30 28 27 25 24 23	49 50 50 51 51
Tu 14 23 W  15  Th 16  F  17  S  18  Su 19  M  20	3 25 29 33 37 41 45 49 49	2 20 0 1 56 0 1 33 0 1 9 1 0 45 1	$egin{array}{cccc} 11 13 \ n20 13 \ 51 13 \ 22 12 \ 152 12 \ \end{array}$	55 3 40 7 25 1: 7 16 49 16 28 1 7 1	1 30  4 36  6 46  7 58	22 5 24  26 4 28  30  32  34	4 2 1  58  56  53  50  47	21 24 28 33 37 41 45 49	3 22  21 19 18 17  15 14	52 52 53 53 54
Tu 21 2 W  22  Th 23 0 F  24  S  25  Su 26  M  27	57	$egin{array}{cccc} 0 & 50 & 3 \ 1 & 13 & 4 \ 1 & 37 & 4 \ 2 & 0 & 5 \ \end{array}$	$egin{array}{cccccccccccccccccccccccccccccccccccc$	44 1° 20 1 54 1° 27 1 59 8 30 4 59 0	6 5 3 57 1 14	35 4 37  39  41  43  45  47	45 3 42  39 3 36  33  30  27	57	8 13 12 10 9 8 7 6	54 55 55 55 55 55
Tu 28 0 W  29  Th 30  F  31	20 24 28 32	$\frac{3}{3}$ $\frac{11}{3}$	55 7 7 25 7	27 2 54 6 20 9 44 12	26' 51	49 4 51  52  54	24 21 18 15	22 19 23 26 29	8 5 3 2 1	16 56 56 56 57

## EPHEMERIS OF THE PLANETS' PLACES

## Calculated for Mean Noon at Greenwich

April, 1922

New Moon April 27th, 5:3 A. M., in 8 6° 9'

Longitude of the Planets

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8   1	10 59	9 23	38 2	20 7	25	31	3	R 43	141	R24	18	17			13r			5
		8 24				<b>II</b> 16		39			18	37		24		18		4
		7 26	6 2					34			18	57		27		18		4
		6 27			4	<u>≈36</u>					19	16		30		17		4
	14 5		35 2									36		33		16		4 4 4 3
Th   6	15 5	5 29	49 2	28 25	2	$\mathfrak{A}14$		21		45	19	54		36		16		3
F   7	16 5	3 1 8	3 3 0	o 7 8	16	32	3	16	13	38	20	13	11	39	13	15	8	3 3 2 2 2 1 1
S   8	17 52	2 2	17[1	L 54	1 1	mp 81		12		29	20	30		42		15		3
Su 9		1 3	31 3	3 40	15	57		7		22		48		44		14		2
M 10		0 4	45	5 29 7 17	0	<u>~52</u>		3			21	4		47		14		2
Tu 11	20 49	9 5	59/7	7 17	15	47	2				21			50		13		2
W  12		8 7	13 9	9 9	0	m32		54	12	59		37		53		13		1
Th 13	22 4	7 8	27 1	11 1	15	2		50		52	21	53		56		12		1
F  14	23 4	5 9	41	12 56	<b>'29</b>	10	2	45	12	44	22		11	59	13	12	8	1
8  15	24 4	4 10	55]	14 51	12	£ 54	Ĺ	41	į	37	22	23	12	2		12		
Su 16				16 49		11				29		37		5		12		
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Tu   18								29		15		3		10		11		5
W  19										8		16		12		11		5
Th  20	29 3	7 17	4 2	24 50	15	49		21	ļ	1	23	28		14		11		5
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Su 23		3 20	45	188	21	17		10		40	24	1		22		10		4
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Tu  25	4 3	0 23	12	<b>5 2</b> 3	15	11		2		27	24	19		27		10		3
W  26	5 2	8 24	26	7 32	27	22	1	58		21				29		10		3
Th  27	6 2	6 25	39 9	9 41	9	8 45	ĺ	55		14	24	36		32		11		3
F  28		5 26	53	11 50	22	22	1	52	11	8	24	42	12	34		11		2 2 2
S  29				13 58		П12		49		1	24	49		36		11		2
Su 30		1 29	20	16 6	18	16		45	10	55	24	55		38		11		2

## EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

## April, 1922

Full Moon April 11th, 8:43 P. M., in = 21° 11'

Declination of the Planets

Day  S.	_	2   C	5	8   1	1 D	ъ   N	3   S	8	S   N
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F   7 1 S   8  Su  9  M  10  Tu 11  W  12  Th 13	0 6 4 7 8 7 12 7 16 8 20 8 24 8	38 11 1 11 23 12 45 12 8 13 30 13 52 13	15 2 42 1 10 0 37 0 4 1 30 1 57 2	4 11 20 8 35 3 N 11 1 59 5 47 9 36 13	53 1 39  s 1  37  49  21	7 3 9  10  12  14  15  17	54 22 52 49 46 23 43 40 37	54 57	53 16 58 52 58 51 58 50 58 49 59 48 59 47 59
F  14 1 S  15  Su 16  M 17  Tu 18  W  19  Th 20	28 9 31 9 35 9 39 10 43 10 47 11 51 11	13 14 35 14 56 15 18 15 39 16 0 16 20 16	48 4 13 5	25 16 16 17 7 18 59 17 51 16 44 14 37 12	0 1 38  15  53  38  40  5	19 3 20  22  23  25  26  28	34 23 31 28 26 23 20 18	12 7 15  17  20  23  26  29	46   16 59 45   59 44 59 43 59 42 59 41 59 40 59
F  21 1 S  22  Su 23 2 M  24  Tu 25  W  26  Th 27	55 11 59 12 3 12 7 12 11 13 15 13 19 13	41 17 1 17 22 17 41 18 1 18 21 19 40 19	13 9 35 10 58 11 19 12 41 13 1 13 22 14	31 9 24 5 18 2 11 1 x 4 5 56 8 47 12	2 1 38  1  544  26  58  10	29 3 31  32  33  35  36  37	15 23 12 10 7 5 2 0	31 7 34 37 40 43 46 48	39   16 59 38 59 37   17 0 36 0 35 0 34 0 33 0
F  28 2 S  29  Su 30	1	18 20	41 15 1 16 19 17	38 14 27 16 15 18	52 1 53  3	39 2 40  41	58 23 55 <b>53</b>	51 7 54  57	32 17 0 31 16 59 31  59

## EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

May, 1922

New Moon May 26th, 6:4 P. M., in  $\pi$  4° 41′

Longitude of the Planets

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W			16		0							36				25	8		45		12		1
Th	4	13	14	4	14	24	27	12	S	43				3			11		47		12		
F	5	14	12	5	27					51				2			14		50		13		
S	6	15	10	6	40	28	27	11	m	8		28	3	2	1 2	25	15		51		13		
Su	7	16	8	17	53	OI	[25	25		33	1	25	5 1	0 1	6	25	16	12	53	13	13		
M			6	9	6	2	17	10		4	1	23					16		55	ļ	13		5
Tu										34		20							57		14		5
W	10	19	2	11	33	5	56	9	m										58	_	14		4
Th	11	20	0	12	46	7	42	23		14		15					12		0		15		4
Tr.	12	20	58							13		13				25	9		2		15		5 4 4 4 3
S	13	21	90	15	12	11	1	20		52	i	1.1	LÍ.	4	8	25	6	i	4	ļ	16	1	J
Su												9	9 9	4	4	25	2	13	6		16		3 2 2 2 1
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Tu	16	24	50	18	51	15				36			5	3	6	24	51		10		18		2
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Su					<b>5</b> 5					24			7 9						17		22		
			36	26	8		2					56				24	0		18		23		1
Tu		1	34	27	20	24	5			28		55					49		20		24		
W		2	31	28	33	25	0					54					37		21		25		
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S					58 <b>10</b>			14		35		52				23	12	3	23		28		อ 5
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M	29	17	19	4	35	28	46	11	5	44		50					29		26		30		4
Tu	30	8	17	5	48	29	16	25	)	36		50				22	13		27		31		4
W	131	19	14	11	0	129	45	19	N	.35	I	49	7]		T	21	57	1	28	ı	32	1	4

## Calculated for Mean Noon at Greenwich SIMPLIFIED SCIENTIFIC

## EPHEMERIS OF THE PLANETS' PLACES

May, 1922

Full Moon May 11th, 6:6 A. M., in m 19° 46'

Declination of the Planets

Day	S.		9   N	9 N	Ņ N	D N	N N	1 24 S	S	H   S	Ψ N
M   1   1   2   W   3   Th   4   F   5   5   5   6		M. ° 35 14 38 15 42 15 46 15 50 16 54 16	$   \begin{array}{c c}     13 & 2 \\     31 & 2 \\     49 & 2 \\     \hline     6 & 2   \end{array} $	0 38 0 55 1 12 1 29 1 45	18 1 18 45 19 28 20 8 20 46	18 16 17 27 15 38 12 52 9 20	1 42 43 44 45	2 51   49   47   45   43	6 9 12	7 30 29 28	59 59 59 59
Su  7  M   8  Tu  9  W  10  Th 11  F  12  S  13		58 16 2 16 6 17 10 17 14 17 18 18 22 18	57 2 13 2 29 2 45 2	2 29) 2 42 2 55 3 7, 3 18	22 26 22 54 23 20 23 43 24 3	8 10 11 59 15 2 17 9	49 50 50 51 52	37 36 34 32 31	31 34	7 25 24 24 23 22 22 21	59 59 59 58 58
Su 14  M  15  Tu 16  W  17  Th 18  F  19  S  20		26 18 30 18 34 18 38 19 42 19 45 19 49 19	45 2 59 2 13 2 26 2 39 2	3 49 3 58 4 6 4 13 4 20	24 51 25 2: 25 11 25 18 25 23	17 19 15 34 13 9 10 12 6 52	54 54 55 55 56	27 25 24 23 22	47 50 53 57	20 20 19 19 19	57 57 57
Su 21  M  22  Tu 23  W  24  Th 25  F  26  S  27		53 20 57 20 1 20 5 20 9 20 13 21 17 21	17 2 29 2 40 2 51 2 2 2	4 31 4 36 4 40 4 43 4 46 4 47 4 49	25 27 25 25  25 22  25 17  25 10	7 48 11 10	57 57 57 57 57 58	19 18 18 17 16	6 9 12 16 19		56 56 55 55
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## EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

June, 1922

New Moon June 25th, 4:19 A. M., in 25 2° 50' Longitude of the Planets

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	7 25							2	8	58			16			35		56		4
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	26 4	5			22				4	15				57		34		12		1
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### EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

June, 1922

Full Moon June 9th, 3:57 P. M., in # 18° 1'

Declination of the Planets

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S	3		45		15	24	36	23	40		2		57	15		41	12		52
Su	4		49		22				25				57	15		43	12		52
M	5		53				26		10		47		57	15		46	11		52
Tu	6		56	22	36	24	20	22	53	10	43		57	15		48	11		51
W	17	5	0	122	42	24	13	22	37	14	1	1	56 2	15	25	50 7	11	16	51
Th			4		48			22		16			56	16		52	11		51
F	9			22	53		57			17			55	16		54	11		50
8	10		12		58		49		46	18	27		55	17		55	11		50
Su	11		16	23	3	23	39	21	29	17	54		54	17		57	11		49
M	12		20	23	7	23	29	21	12	16	27		54	18		59	10		49
Tu	13		24	23	11	23	18	20	55	14	15		53	19	26	0	10		48
W	14	5	28	23	14	23	7	20	39	11	28	1	53 2	19	26	1 7	10	16	48
Th			32		17		55	20	23	8	14		52	20		2	10		47
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3	17		40	23	22		28	19	53	1 :	$\mathbf{n}  1  $		50	22		4	10		46
Su			44		24		14	19	40		44		50	23		5	10		46
M			48		25	22		19	28		24		49	24		6	10		45
Tu	20		52	23	26	21	45	19	16	9	<b>5</b> 3		48	26		6	10		45
W	21	5	56	23	27	21	29	19	6	13	0	1	47 2	27	26	7 7	10	16	44
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	23			23	26	20	56	18	51	17	26		45	30		8	11		43
	24		7		26 2		38		45		22		44	31		8	11		43
Su			11		25		20	18	41	18	15		43	33		8	11		42
M			15		23 2		2		38		1		42	34		8	11		42
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Th			27		16			18	41		35		39	39		8	12		41
F	30		31	23	13]	18	43	18	44	3	15		37	41		8	12		40

## EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

July, 1922

New Moon July 24th, 0:47 P. M., in & 0° 49'

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Tu 18		4 3	55	6	4	9	8 26					11	7		16		55	
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# EPHEMERIS OF THE PLANETS' PLACES

# Calculated for Mean Noon at Greenwich

July, 1922

Full Moon July 9th, 3:7 A. M., in 1/3 16° 7'

### Declination of the Planets

Day S.	T.   N	1 9	N   I	N   A	S	Ņ   N	2f.	8   S	₩   Ψ S   N
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F   7 6 S   8 7 Su  9  M  10  Tu 11  W  12  Th 13	14   22 18   22	39 16 33 15 26 15 19 14 11 14 3 14 55 13	6 19 42 19 18 20 53 20 28 20 2 20 37 21	46 18 59 18 12 17 25 15 39 12 53 9 6 6	23 1 13 6 11 36 31 5	28   2 26   25   3 23   21   20   18	56 26 58 0 3 5 8 10	7 7 6 6 6 6 6 6 6 6	14   16   36   15   35   35   15   34   16   33
F  14 7 S  15  Su 16  M  17  Tu 18  W  19  Ph 20	30 21 34 21 38 21 42 21 46 20	46 13 37 12 28 12 18 11 8 11 57 10 46 10	10 21 44 21 17 21 50 21 23 22 55 22 28 22	19 2 32 11 45 4 56 8 6 11 15 14 23 16	27 1 58 29 43 30 40	16 3 15  13  11  9  7  5	13 26 16  18  21  24  27  30	6 7 6 7 7 7 7 7 7	17 16 32 17  32 18  31 18  31 19  30 19  30 20  29
F  21 7  3  22   3  23 8  3  23 8  M  24   T  25   W  26   T  26	58 20 2 20 6 19 10 19 14 19	35 10 23 9 12 9 59 8 47 8 34 7 21 7	0 22 31 22 3 22 34 22 5 22 36 22 7 22	29 18 33 18 35 17 35 15 32 12 27 9 20 4	0 1 22  37  44 0 48  3  44	4 3 2 0 58 56 54 51	33 26 36  39  42  45  48  52	8 7 8 9 9 10 11 12	20   16   29   21   28   27   23   26   24   25   25   25
7  28 8 3  29  3  30  M  31	29 18	7 6 53 6 39 5 <b>24</b> !5	38 22 8 21 38 21 8 21	10 0 s 57 4 41 8 23 12	10 0 20  31  9	49 3 47  45 4 43	55 26 58  2  5]	12 7 13  14  15	25   16   24   26   23   27   22   27   21

### EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

August, 1922

New Moon August 22nd, 8:34 P. M., in & 28° 57'

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	$egin{array}{ccc} 24 21 \ 0 & 21 22 \ 1 & 19 23 \ 2 & 16 24 \end{array}$	7 4 2 15 6 23 8 31 10	58 25 3 8 9 21 14 4 19 17 23 29	# 34 42 1237 20	3 34 39 4 44 5 5	9  	26 35 44 53	12 43 12 56 13 9 13 23 13 37	12R53 51 49 47 45		26 2 28 30 32 34 36	25 21 18 15 12
M   7 14 Tu  8 11 W   9 1 Th 10 1 F  11 18 S  12 18 Su 13 1	1 11 26 5 827 6 6 29 7 3 0 : 3 1 1 5 59 2	$ \begin{array}{c c} 46 &   14 \\ 53 &   16 \\ 0 &   18 \\ - 7 &   20 \\ 14 &   22 \end{array} $	27 12 29 24 31 6 31 18 31 29 29 11	9 18 €17 8 9 57   744	4	6 14 2  8  4	11  20  29  38  48  58 1	14 8 14 25 14 42 15 0 15 19	12 41 39 37 0 38 1 33 1 33	15		2 5
M  14 20 Tu 15 2 W  16 20 Th 17 2 F  18 2 S  19 20 Su 20 2	0 54 4 1 51 5 2 49 6 3 47 7 4 45 8 5 42 10	34 28 40 0m 46 2 53 3 59 5	$20 5 \ 215 17 \ 7 0 \ 59 12 \ 48 26 \ 37 9$	831 7 42 H 9 2 59 6 14 557	4 4   5   5   5   1	7  <b>15</b> 3  9  5	17 27 37 47 57	16 17  16 38  16 59  17 21  17 43  18 6	7   12   20         22         20         18       18	5   15 4   2   0   16 8	54 1 56 58 1 3 5	
M  21 2 Tu 22 25 W  23 2 Th 24 0 F  25 1 S  26 2 Su 27 3	27 38 12 8 36 13 9 34 14 my32 15 29 16 27 17	2 15 11 20 12 25 14 5 29 16 6 34 17 38 19	9 8 53 23 36 8 16 23 57 8	34 m37 42 ⇒38 21	5 3   3'   4   5   5	7  3  0  <b>17</b> 6	39  50  0	19 18 19 43 20 8 20 34 21 0	3 4 3 4 4 5 11 59	3  5  1  2		1 2. 18 11 15
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# EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

August, 1922

Full Moon August 7th, 4:18 P. M., in 2 14° 21'

# Declination of the Planets

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Su 6	53 17 57 16	8 2	38 19 8 18	16 17 44 15	27 48	32 29	23  27	20 22	31 32	19 18
M   7 9 Tu  8  W   9	1 16 5 16	18 1	37 18 7 17	10 13 35 10	28 0 33	27 4 25	30 26 34  38	23 7 24 25	33 16 33 34	17 17 16
W   9  Th 10  F  11	9 16 13 15 17 15		36 16 6 16 s 25 15	58 7 20 3 40 0 1	15 41 N 1	22 20 17	42 46	26 28	35 36	16 16 15
Su 13	21 15 25 14	8 0	55 15 26 14	0 3 18 7	42 15	15 13	49 53	<b>2</b> 9 <b>3</b> 0	37 38	14 13
M  14 9 Tu 15  W  16	28 14 32 14 36 13	14 2	56 13 27 12 57 12	36 10 53 13 10 15	32 0 26  47	10 4 8 5 5	57 26 1 5	31 7 33 34	38 16 39 40	12 12 11
Th 17 F 18	40 13 44 13	36 3	27 11 58 10	26 17 41 18	26 12	s 0	9	35 36	41 42	11 10
S  19  Su 20	48 12 52 12	57 4   38 4	28 9 58 9	57 17 12 16	57  36	3  5	17 21	37 38	43 44	10 9
M  21 9 Tu 22 10 W  23	56 12 0 11 4 11	18 5 58 5 38 6	28 8 58 7 28 6	27 14 42 10 56 6	9 0 44 34	8 5 10 13	26 26 30 34	39 7 40  41	45 16 45 46	8 8 7
Th 24 F 25	8 11 12 10	18 6 57 7	58 6 27 5	11 1 s 26 2	59 <b>42</b>	16 18	38 42	42 43	47 48	7
S  26  Su 27	16 10 20 10		57 4 26 3	41 7 56 11	8  3	21  24	51	43 44	49 50	5 4
M  28 10 Tu 29  W  30	24 9 28 9 32 9	54 8 33 9 12 9	55 3 24 2 53 1	12 14 27 16 43 17	13 0 30  50	26 5 29 6 32	55 26   0    4	45 7 45  46	51 16 52  53	3 3
Th 31	3618	50 10		59]18	111	35]	8	46	54	2

### EPHEMERIS OF THE PLANETS' PLACES

# Calculated for Mean Noon at Greenwich

September, 1922

New Moon September 21st, 4:38 A. M., in mg 27° 23'

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F   I	18	15	24	0	28	59	14	22	6	43	18	28	23	46	111	R45	16	33	0	46
	9							49		49		40	24	15		43		36		43
Su 3	3 10	12	26	6				<b></b> 4		56				45		41		38		40
M   4	11	10	27	8	3	24	21	10	7	3	19							40		37
Tuj 5		8		10	4	49	3	€ 8		10				45				42		33
Wie	5 13	6	29	11	6	14	15	0		17		26	26	16		33		44		30
Th  7	114	4	0 m	12	17	36	26	49	17	24	119	37	26	47	11	31	116	46	0	27
F   8				13	8	58	8	T36		31		49		18		28		48		24
S   9	16	1		13						38				49	1	26	1	50		21
Su 10										45		13	28	21	ł	23		52		17
M 11	17	57	4	14	12	52	14	17	Ĺ	52		25	28	53		21		54		14
Tu 12	2 18	56	5	14	14	8	26	29	Ĺ	59		37	29	26		19		56		11
W  13	3 19	54	6	13	15	21	8	П56	8	6		49	29	59		17		58		.8
Th 14	120	53	7	12	16	34	21	42	8	13	21	1	10v	32	11	14	17	0	0	4
F 13										20		13		5				1		1
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Su 17										35		37	2	13		8	ļ	5		55
M 118	3 24	47	11	5	21	2	16	57		42				47		5		7		52
Tu 1	9 25	45	12	1	22			m47		49	22	1	3	21				9		49
W 12	0[26	44	12	58	23	3	16	52	ĺ	57	Ì	14	3	56		1	Ì	11		46
Th 21	127	43	13	54	23	58	2	<u>~ 4</u>	9	4	22	26	4	31	10	58	17	13	29	42
F  25	2 28	42	14	50	24	53	117	14	1	11		39		7		55		14		39
S [23	3 29	40	15	45	25	42	2	m 11	ì	18		51	5	42		53		16		36
Su 24	4 0∽	=39	16	39	26	31	116	50		26	23	4	6	18		51		18		33
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Tu 20	32	37	18	27	27	54	14	51		41		29	7	30		47		21		26
W  27	3	36	19	20	28	27	28	13		48		41	8	7		45		23		23
Th 2	8 4	35	20	12	29	0	111	V310	19	55	23	54	8	44	10	43	17	25	29	20
F  29	5							47								41		27		17
S 30										10		19		58		38		28		14

### EPHEMERIS OF THE PLANETS' PLACES

# Calculated for Mean Noon at Greenwich

September, 1922

Full Moon September 6th, 7:47 A. M., in € 12° 56'

# Declination of the Planets

Day  S	. T.	0   N			s	5   S	24   S	ô   S	ж S	Ψ N
F   110 S   2  Su  3  M   4  Tu  5  W   6		$egin{array}{ccc} & 29 10 \ & 7 11 \ & 45 11 \ & 23 12 \ & & 1 12 \ \end{array}$	50 0 18 0 s 46 1 14 1 41 2 8 3	16 17 27 16 9 14 51 11 33 8 14 4	37 0 12 3 20 9 40	37 6 40 43 46 48 51	13 2 17 22 26 31 35	6 46 7 46 46 46 46 46	54 1 55 56 56 57 1 58 59	6 1 1 0
Th  7 11 F   8  S   9  Su 10  M  11  Tu 12  W  13	3 6 7 5 11 5 15 5 19 4 23 4 27 4	54 14 31 14 9 14 46 15 23 15	35 3 2 4 29 5 55 5 21 6 46 7 11 7	55 1 34 2 N 14 6 52 9 30 12 7 15 43 16	r 1 0 40  14 1 35  35  4  54	54 6 57  0  3  5  8 7 11	40 2 44  49  53  58  2  7	6 45 8 45 44 43 42 41 40	0 1 2  3  4  5	5 57 57 56 56 55 55 54
Th   14   13   F   15   S   16   Su   17   M   18   Fu   19   W   20	31 3 35 3 39 2 43 2 46 2 50 1 54 1	14 17 51 17 28 17 5 18	36 8 1 8 25 9 49 9 12 10 35 11 58 11	18 17 53 18 26 17 59 15 30 12 0 8 29 4	57 1 5 12 16 19 31 6	14 7 17 20 23 25 28 31	12   2 16   21   25   30   35   39	6 39 8 37 35 34 31 29 27	6 1 7 8 9 10 10 11	5 54 53 52 52 51 51 50
Th 21 11  F  22 12  S  23   Su 24   M  25   Tu 26   W  27		31 19 8 20 8 15 20 39 20 2 21	21 11 43 12 4 12 25 13 46 13 6 13 26 14	56 0 s 23 5 47 9 10 13 31 15 50 17 7 18	38 1 18  34  8  49  30  8	34   7 37   40   43   46   8 48   51	44 2 49 54 58 3 8 12	6 24 8 22 19 16 13 9 6	12 1 13 14 15 15 16 17	5 50 49 49 48 48 47 47
Ch 28 12   F  29    3  30	26 1 30 2 34 2	12 22	46 14 5 14 23 14	22 17 35 16 45 14	48 1 35  36 2	54 8 57  0]	17 2 22 2 27		18 1 19  20	5 46 46 <b>4</b> 5

### EPHEMERIS OF THE PLANETS' PLACES

# Calculated for Mean Noon at Greenwich

October, 1922

New Moon October 20th, 1:40 P. M., in - 26° 23'

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Th  5											47				6		28			28	
F   6	12	27	26	45	29	33	17		26		54		36	13	44		26		38		5
S   7	13	26		30		1				11					22	10	24	17	39	28	5
Su  8		25				28					9	26		15	1		22		40		4
M   9		25		59	27	40			29		17				40		21		41		4
Tu 10	16	24	29	42	26	51	5	II.	48		24				19		19		43		9
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Su 15						13					0				36		11		49		2
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Tu 17  W  18				10	17	55 49	105	IIV.	19		19	00			56		6		52		1
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M  23						50					59				59	Q	59		57		
Tu 24						40					6				40		57			27	5
W 25						52					13				21		56		59		5
Th 26		18				4					20		57		2			18	0		5
$\mathbf{F}$ [27]	3	18	8	34	15	37	2	~~~	36		27	0 m	10	27	43		54		1	1	4
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Su 29	5	18	9			58			57		41			29	6		52		3		4
M  30		17				47					48		49	29	48		51		4		4
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### EPHEMERIS OF THE PLANETS' PLACES

## Calculated for Mean Noon at Greenwich

October, 1922

Full Moon October 6th, 0:58 A. M., in 7 12° 0'

### Declination of the Planets

Day		0   º S   S	S S	)	5   S	24 S	8	₩   Ψ S   N
		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		5 34 1 57 1 N44	3 8 6 9 11 14 17	31 25 36 41 45 50 55	50 8 45 40 35 30 25	20 15 44 21 44 22 43 23 43 23 43 24 43
S   7 1 Su  8  M   9  Tu 10  W  11  Th 12  F  13	3 1 5 5 5 9 6 13 6 17 6 21 7 25 7	41 24 3 4 24 4 27 25 50 25 1 12 25 2	8 13 32  2 13 3 5 12 29	11 54 14 32 16 32 17 47 18 11	20 9 23  26  29  31  34  37	0 25 4 9 14 19 24 23 28	19 8 14 8 2 55 49 42	24   15   42   25   42   26   41   27   41   28   40   28   40
S  14 1   Su 15    M  16    Tu 17    W 18    Th 19    F  20	3 29 7 33 8 37 8 41 9 45 9 49 9 53 10	20 26 42 26 1 4 26 2 26 26 3 48 26 39	1 10 27 2 9 42 2 8 56 2 8 11  11 7 27 9 6 47  7 6 11	13 33 10 10 6 5 1 32 3 s 10	40 9 43  46  48  51  54  57 10	33 24 37 42 47 51 56 23	35 8 28 21 13 5 57 49	29 15 39 30  39 30  39 31  38 32  38 32  38 33  37
S  21 1   Su 22 1   M  23    Tu 24    W  25    Th 26    F  27		52 27 14 27 35 27 1 56 27 1 16 27 2	4 5 39  1 5 13 7 4 52 3 4 37 7 4 29  1 4 25  5 4 28	14 51 3 17 1 18 6 18 6 17 7	59 10 2 5 8 10 13 16	5 23 10 15 19 24 29 22 33	41 8 32 23 14 5 56 46	33   15   37   34   36   35   36   35   36   35   36   35   36   35
S  28 1  3u 29   M  30   Tu 31	4 24 12 28 13 32 13 36 13	17 27 29	7 4 35  9 4 47  1 5 3  1 5 23	9 54 6 34	18 10 21  23  26	38 22 42  47  <b>52</b>	36 8 26  16  6	36   15   35   37   35   37   35   37   35

### EPHEMERIS OF THE PLANETS' PLACES

Calculated, for Mean Noon at Greenwich

November, 1922

New Moon November 19th, 0:6 A. M., in m 25° 53'

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		18 9		44		6			[5]		9		28		54		49		6		3
		18		49		19			10		16		41		36		48		6		2
	11			49							23		54		18		47		7		2
		18		49					26		30			4	0		46		7		2 2 2 1
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Tul 7	14	18	9	40	27	52	15	2	24	14	43	2	<b>3</b> 3	5	24	9	45	18	8	27	1
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Th 9	16	19	9	22	0m	52	11	<u> </u>	10		57		.59		49		43		9		
F  10	17	19	9	8						15	4		12		32		43		9		
S  11						56					10		25		15		42		10		
Su 12				34					32		16		38		57		42			26	
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W  15		21			10		4			1	36			11			41		11		4
Th 16	23	22	7	1	11	49	18		55		42	1	29	11	49	i	41		11		4
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Th 23		26	3		22				4		26	į.	57	16	51	į.	41	1 :	R11		2
F 124		26			24				46		31	6	10	17	34		41		11		2
S  25					26	7			6		37	Ì	22	18	18	1	41		11		1
Su 26					27						43			19			42		10		1
M  27	4	29	0	50	29	17	17		3		49	1	47	19	45	1	42		10		1
Tu 28	15	29	0	15	0 1	51	128	3	51	16	55	16	59	20	28	19	42	18	10	26	
W 129										17		7		21			43		10	1	
Th <sub>1</sub> 30				6					31						56		43		10		
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### EPHEMERIS OF THE PLANETS' PLACES

# Calculated for Mean Noon at Greenwich

November, 1922

Full Moon November 4th, 6:36 P. M., in 8 11° 35'

### Declination of the Planets

Day		Т.		<b>S</b>		8	1	8	1	D N	1	3		2£ S		đ S	1	H S		Ψ N
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F	3	48	14	55		27			0 7	55		34		5		34		38		34
8	4	52		13		24			0 11			36		10		22		38		34
Su	5		15	32		21			2 13			39		14		11		39		34
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W	8		16	26			9		4 18			46		27		36		39		33
Th	9	11	16	43	26	56	10		0 17	59		49		32		24		39		33
F	10	15	17	0	26	47	10	3	6 16	42		51		36		11		39		33
£	11	19	17	17	26	38	11	1	2 14	28		54		40	19	59		40		33
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M	13	27	17	50	26	15	12	2	5 7	38		58		49		34		40		33
Tul	14 15	31	18	6	26	2	13		1 3	21	4	11	11	53	19	21	8	40	15	33
W			18	22	25		13	3	7 1	8 13		3		58		8		40		33
Th :		39		87	25	34			3 5	45		5	12	2	18	54		40		33
	17	43		52	25	18	14		8 9	58		8		6		41		40		33
8	18	47	19	7	25	1	15	2	2 13	34		10		10		27		40		33
Su !	19	51	19	21	24		15		6 16			12		15		13		40		33
M	20	55	19	35	24	24	16	2	9 17	53		14		19	17	59		40		33
Tul	21 15	591	19	49	24	5	17	5	2 18	22	4	17	12	23	17	45	8	40	15	33
	22 16		20	2	23	44	17	3	4 17	47		19		27		31		40		33
Th			20	15	23		18		5 16			21		31		16		40		33
	24	11	20	27			18	3	5 13	58		23		35		2		40		33
8 12	25	15	20	39		40	19		5 11	6		25		39	16	47		40		33
Su		19	20	51		18			3 7	49		27		43		32		39		33
M	27	22	21	3	21	55	20		1 4	16		29		47		17		39		33
Tul	28 16	26	21	13	21	32	20	2	8 0	N35	4	31	12	51	16	2	8	39	15	33
W		30	8	24		10			3 3	8		33		55		47		39		33
1'h		34		34		47			8 6	45		35		59		32		39		33
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#### EPHEMERIS OF THE PLANETS' PLACES

# Calculated for Mean Noon at Greenwich

December, 1922

New Moon December 18th, 0:20 P. M., in 2 25° 49'

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Δį	4	11	34				18	11	$\Pi 52$		28			24	51		46		8		,
ľu	5	12			39			24	47		33		24		35		47		8		
וא	6	13	36	26	17	13	26	7	<b>空56</b>		38		36	26	19		48		8		
M	7	14	37	25	54	15	1	21	16	17	43	8	47	27	3	9	49	18		25	
r i	8	15	38	25	36	16	35	4	N46		48				46		50		7		
3	9	16	39	25	18	18	9	18	26	Ì	<b>5</b> 3	9	11	28	30		51		6		
lu	10	17	40	25	5	19	43	2	m <sub>13</sub>		58	ſ	23	29	14		52		5		
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			42						-12		8		46	(O)	42		55		3		
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W	20	27	51	24	59	5	32	22	48	1	43	1	14	6	34	1	5	}	57	24	
Ch	21	28	52	25	10	7	8	5	<b>~</b> 52	18	47	11	25	7	19	10	7	17		24	
			53		26	8		18		1	51		36	8	3		9	1	55	}	
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Bu	24	1		26		111		12			58		57	9	31		11		53		
M	25	2		26			31			19	2	12		10	15		13		52		
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W	27	4	<b>5</b> 9	27	6	16	43	18	30		9		28	11	43		17		49		
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		7		28		19		12			15		49		12		21		47		
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Bu	31	19	3	29	0	23	4	17	1122		22	13	8	14	40		24		45		

### EPHEMERIS OF THE PLANETS' PLACES

# Calculated for Mean Noon at Greenwich

December, 1922

Full Moon December 4th, 11:23 A. M., in II 11° 32'

Declination of the Planets

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Day	7	S.	T.		<b>8</b>		8		8		N	1	P S		g t		8		版 S	1	Ÿ V
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S	2			21	53		3	22	4		9		39		7		0		38		33
Su	3			22		19	42			15	38		41		11	14	45		38		34
M	4		50	22	11	19	21		46		24		43		15		29		37		34
Tu	5		54		19			23		18	20		45		18		13		37		34
W	6			22	26	18	41		<b>2</b> 3		18		46		22	13	56		37		34
Th	7	17	2	22	34		23	23	40	17	16	4	48	13	26	13	40	8	36	15	34
F	8		_	22		18		23	56		16		50		30		24		36		35
S	9			22	47		48		10		23		52		33		7		36		35
Su			14		52		33		24		48		53		37	12	51		35		35
M			18		58		18		35		41		55		40		34		35		35
Tu				23		17		24			17		56		44		17		35		35
W	13		26	23	7	16	52	24	<b>5</b> 5	4	11		58		47		1		34		35
Th			29		11		40		3		26	4	59	13	51	11	44	8	34	15	35
	15		33		15	16	30	25	10		13	5	1		54		27		33		36
S	16			23		16	21		15		16		2		58		9		33		36
Su				23		16	12		19		22			14		10	52		32		37
M				23	23			25		18	22		5		5		35		31		37
Tu				23	24		59		22		17		7		8		17		30		37
W	20		53	23	26	15	54	25	21	17	9		8		11		0		30		38
Th	21	17	57	23	26	15	50	25	19	15	9	5	9	14	14	9	42	8	29	15	38
	22			23	27	15	47	25	15	12	28		10		18		25		29		38
3	23		5	23	27	15	44	25	10	9	17		12		21		7		28		38
Su	24			23	26	15	43		4	5	46		13		24	8	49		28		38
M	25		13	23	25	15	42		<b>5</b> 5		5		14		27		32		27		39
Tu				23	23	15		24			439		15]		30	_	14		26		39
W	27		21	23	21	15	43	24	34	5	20		16		33	7	56		25		40
Th		18	25	23	19		45		21		49	5	17	14	36	7	38	8	24	15	40
	29			23	16		47			11	59		18		39		20		24		41
	30		33	23	12		50		51		42		19		42		2		23		41
Bui	311		87	23	8	15	53	23	34	16	47		20		45	6	44		22		41

# TABLE OF PROPORTIONAL LOGARITHMS Hours or Degrees

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Min. 0 1 2	3	4	5	6	7	8	9	10	11
0 3.1584 1.3802 1.0792								3802	3388
13.1584 .3730 .0756	07		6798	09	41	62		3795	82
	8983	45		5997	30	53	44	88	75
	59	28	69	85	20	44	36	80	68
3 .6812 .3590 .0685				73	10	35	28	73	62
4 .5563 .3522 .0649	8935	10	55						
5 2.4594 1.3454 1.0614	8912	7692	6741	5961			4220	3766	3355
6 .3802 .3388 .0580	8888	74	26	49	5289	17	12	59	49
7 .3133 .3323 .0546	65	57	12	37	79	08	04	52	42
8 .2553 .3258 .0511	42	39	6698	25	69	4699	4196	45	36
	19	22	84	13	59	90	88	38	29
				5902	5249	4682	4180	3730	3323
10 2.1584 1.3133 1.0444	8796	7604	6670					23	3323
11 .1170 .3071 .0411	73	7587	56	5890	39	73	72		
12 .0792 .3010 .0378	51	70	42	78	29	64	64	16	10
13 .0444 .2950 .0345	28	52	28	66	19	55	56	09	03
14 .0122 .2891 .0313	06	35	14	55	09	46	49	02	3297
15 1.9823 1.2833 1.0280		7518	6600	5843	5199	4638	4141	3695	3291
		01	6587	32	89	29	33	88	84
		7484	73	20	79	20	25	81	78
17 .9279 .2719 .0216						11	17	74	71
18 .9031 .2663 .0185		67	59	6707	69				
19 .8796 .2607 .0153		51	46	5797	59	03	09	67	65
20 1.8573 1.2553 1.0122		7434	6532	5786	5149	4594	4102	3660	3258
21 .8361 .2499 .0091		17	19	74	39	85	4094	53	52
22 .8159 .2445 .0061		01	05	63	29	77	86	46	46 39
		7384	6492	52	20	68	79	39	39
23 .7966 .2393 .0030		68	78	40	10	59	71	32	33
24 .7781 .2341 1.0000						4551	4063	3625	
25 1.7604 1.2289 0.9970		7351	6465	5729	5100				JAZI
26 .7434 .2239 .9940		35		18	5090	42	55	18	
27 .7270 .2188 .9910		18		06		34	48	11	14
28 .7112 .2139 .9881		02		5695	71	25	40	04	
29 .6960 .2090 .9852						16	32	3597	01
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32 .6532 .1946 .9765					32				0.3
33 .6398 .1899 .9737							02		
34 .6269 .1852 .9708									
35 1.6143 1.1806 0.9680						4466			
36 .6021 .1761 .9652							79		
38 .5786 .1671 .9597									70
39 .5673 .1627 .9570		28	82						
40 1.5563 1.1584 0.9542									3133
41 .5456 .1540 .9518	5 40								<b>[</b> ] 26
42 .5351 .1498 .9488				41					3 20
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44 .5149 .1413 .9438									
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45 1.5051 1.1372 0.9409									
46 .4956 .1331 .9383									
47 .4863 .1290 .9350									
48 .4771 .1249 .9330	0 04	4 6990	68	3 77				مصحده	
49 .4682 .1209 .930	5 7985					49	82	2 6	1 7
50 1.4594 1.1170 0.927	9 7966				والناسيس ار				307
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51 .4508 .1130 .925									
52 .4424 .1091 .922	8 29								
53 .4341 .1053 .920.									
54 .4260 .1015 .917	8 7891	1 00							
55 1.4180 1.0977 0.915						4300			
56 .4102 .0939 .912	8 54								
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<b>58</b> .3949 .0865 .907							فالكانة		
59] .3875] .0828] .905	5  00	0] 27	71 . 33	3 6	1  80	0] 68	JI U.	9  339	JU L

TABLE OF PROPORTIONAL LOGARITHMS

		TABL	E OF	PRC H	POR	TION or Deg	AL L rees	UGAI	ain	M2		
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3	92	46	25	27	47	85 81	37 34	03 0999	77	66	64	72
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5	2980 74	2635 29	10	12	34	72	25	92	70	59	58	66
7	68	24	05	08	29	68	21	88	66	56	55	63
8	62	18	00	03	25	64	17	84	63	52	52	60 57
9	56	13	2295	1998	20	60	13	80	59	49 0546	48 0345	0153
10	2950	2607	89	1993	1716	1455	1209 05	0977	0756 52	42	42	50
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Oceanside, California, U.S.A.

# **EPHEMERIS OF PLUTO FOR 1923**

te	Long.	Dec.	Date	Long.	Dec.
nuary 29	9° 5 35′R	20° N 18′	July 28	11° 5 18′	20° N 27'
bruary 28			August 27	11° Ⅲ 56′	20° N 24′
rch 30				12° 55 18′	20° N 22′
ril 29	9° ≈ 20′o	20° N 29′	October 26	12° 55 20′	20° N 22′
y 29	9° 空 51′	20° N 30′	November 25	12° ≤ 00′R	20° N 24′
ne 28	10° 5 35′	20° N 29′	December 25	11° 5 27′	20° N 28′

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## EPHEMERIS OF THE PLANETS' PLACES

# Calculated for Mean Noon at Greenwich January, 1923

New Moon January 17, 2:41 A. M., in v3 25° 58'

# SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES Calculated for Mean Noon at Greenwich January, 1923

Full Moon January 3, 2:33 A. M. in 5 11° 43′
Declination of the Planets

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# EPHEMERIS OF THE PLANETS' PLACES

# Calculated for Mean Noon at Greenwich

### February, 1923

New Moon February 15, 7:07 P. M., in 226° 6' Longitude of the Planets

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#### SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES Calculated for Mean Noon at Greenwich February, 1923

February, 1923
Full Moon February 1,3:53 P. M., in at 11° 48'
Declination of the Planets

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# EPHEMERIS OF THE PLANEIS' PLACES

# Calculated for Mean Noon at Greenwich

March, 1923

New Moon March 17, 0:51 P. M. in  $\times$  25° 55'

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# SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES Calculated for Mean Noon at Greenwich March 1923

March, 1923
Full Moon March 3, 3:24 A. M. in mg 11° 32'
Declination of the Planets

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#### EPHEMERIS OF THE PLANETS' PLACES

# Calculated for Mean Noon at Greenwich April, 1923

New Moon April 16, 6:28 A. M., in γ 25° 15' Longitude of the Planets

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# SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES Calculated for Mean Noon at Greenwich April, 1923

Full Moon April 1, 1:10 P.M. in \( \sim \) 10° 48′ Full Moon April 30, 9:30 P.M. in \( \mathrm{m} \) 9° 30′ Declination of the Planets

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### EPHEMERIS OF THE PLANETS' PLACES

# Calculated for Mean Noon at Greenwich

### May, 1923

New Moon May 15th, 10:38 P. M., in 8 24° 4'
Longitude of the Planets

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# SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES Calculated for Mean Noon at Greenwich May, 1923

May, 1923
Full Moon May 30, 5:07 A. M. in \$\frac{t}{2}\$ 7° 47'

Declination of the Planets

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# EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

June, 1923

New Moon June 14th, 0:42 P. M., in II 22° 26'
Longitude of the Planets

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# SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES Calculated for Mean Noon at Greenwich

June, 1923
Full Moon June 28, 1:04 P. M. in 195 5° 49'
Declination of the Planets

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# EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

July, 1923

New Moon July 14th, 0:45 A. M., in 5 20° 34'

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# SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES Calculated for Mean Noon at Greenwich

July, 1923
Full Moon July 27, 10:33 P. M., in 23° 51'
Declination of the Planets

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# EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

August, 1923

New Moon August 12th, 11:17 A. M., in & 18° 43'

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	18		31			17	29	14		31		24			21	24		25		10	
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# SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich August, 1923

Full Moon August 26, 10:29 A.M., in ≠ 2° 9'
Declination of the Planets

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11		31		<b>5</b> 2		1 8				1											

# EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

September, 1923

New Moon September 10th,  $\delta:\!53$  P. M., in my 17° 6′

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## EPHEMERIS OF THE PLANETS' PLACES Calculated for Mean Noon at Greenwich

September, 1923
Full Moon Sept. 25,1:16 A. M. in γ 0° 57'
Declination of the Planets

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	46	16	40	5	7	6	8	55	6	1	5	0		12	11	32		23		24
	50	18	0	7	6	22	7	<b>5</b> 8	6	53		5		18		4		25		22
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# EPHEMERIS OF THE PLANETS' PLACES

# Calculated for Mean Noon at Greenwich

October, 1923

New Moon October 10th, 6:05 A. M. in  $ightharpoonup 15^{\circ}$  54'

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# SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES Calculated for Mean Noon at Greenwich October, 1923

October, 1923
Full Moon October 24, 6:26 P. M. in 8 0° 19'
Declination of the Planets

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#### EPHEMERIS OF THE PLANETS' PLACES

# Calculated for Mean Noon at Greenwich

November, 1923

New Moon November 8th, 3:27 P. M. in m 15° 13'

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#### SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES Calculated for Mean Noon at Greenwich

November, 1923
Full Moon November 23, 0:58 P. M., in II 0° 13'
Declination of the Planets

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#### EPHEMERIS OF THE PLANETS' PLACES

### Calculated for Mean Noon at Greenwich

#### December, 1923

New Moon December 8th, 1:30 A. M. in # 14° 56'

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# SIMPLIFIED SCHENTIFIC EPHEMERIS OF THE PLANETS' PLACES Calculated for Mean Noon at Greenwich

December, 1923
Full Moon December 23, 7:33 A. M. in 25 0° 28'
Declination of the Planets

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## TABLE OF PROPORTIONAL LOGARITHMS

		THE OWNER WHEN	-	Degre	ees					
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0 3.1584 1.38			7781	6812		5351	4771	4260	3802	3388
1 3.1584 .37		07	63	6798	09 5997	41 30	62 53	52 44	3795 88	82 75
2 2.8573 .366 3 .6812 .35		8983 59	45 28	84 69	85	20	44	36	80	68
3 .6812 .35 4 .5563 .35		8935	10	55	73	10	35	28	73	62
5 2.4594 1.34		8912	7692	6741	5961	5300	4726	4220	3766	335
6 .3802 .33		8888	74	26	49	5289	17	12	59	49
7 .3133 .33		65	57	12	37	79	08	04	52	4
8 .2553 .32	58 .0511	42	39	6598	25	69	4699	4196	45	30
9 .2041 .31		19	22	84	13	59	.90	88	38	29
10[2.1584]1.31	33 1.0444	8796	7604	6670	5902	5249	4682	4180	3730	332
11 .1170 .30	.0411	73	7587	56 42	5890 78	39 29	73 64	72 64	23 16	10
12 .0792 .30		51	70 52	28	66	19	55	56	09	0.
13 .0444 .29 14 .0122 .28			35	14	55	09	46	49	02	329
15 1.9823 1.28			7518	6600	5843	5199	4638	4141	3695	329
	75 .0248		01	6587	32	89	29	33	88	8
17 .9279 .27	19 .0216		7484	73	20	79	20	25	81	7
18 .9031 .26	.0185	17	67	<b>5</b> 9	09	69	11	17	74	7
	.0153		51	46	5797	59	03	09	67	6
	553 1.0122		7434	6532	5786	5149	4594	4102	3660	325
21 .8361 .24	199 .0091	52	17	19	74	39	85	4094	53	5
	145 .0061	30 09	01 7384	05 6492	63 52	29 20	77 68	86 <b>7</b> 9	46 39	3
	393  .0030 341 1.0000		68	78	40	10	59	71	32	3
	289 0.9970		7351	6465	5729	5100	4551	4063	3625	3 322
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	188 .9910		18	38	06	81	34	48	ii	ī
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29 .6960 .20	9852		7286	12		61	16	32		0
	041 0,9823		7270	<b>63</b> 98		5051	4508	4025		319
	993 .9794		54	85		42	4499	17	83	8
	946 .9765		38	72		32	91	10 02		.8
	.9737 852 .9708		22 06	59 46		23 13	82 74	3995		7
35 1.6143 1.18			7190	6333			4466	<b>3</b> 987	3556	316
	761 .9652		74	20		4994	57	79		5
	716 .9625		59	07	5596	84	49	72		5
38 .5786 .16	571 .9597		43	6294		75	40	64	35	4
39 .5673 .16	527 .9570	79	28	82	74	65	32	57		313
	584 0.9542		7112	6269			4424	3949		313
	.9515		7097	56			15	42		2
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54 .4260 .10 55 1.4180 1.0	917 <mark>  .9</mark> 178 977  <b>0.91</b> 53		<b>68</b> 85				08 4300			
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TABLE OF PROPORTIONAL LOGARITHMS

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4 5	2980	2635	2315	2017	1738	1476	1229	0996	0774	0563	0361	0169
6	74	29	10	12	34	72	25	92	70	59	58	66
7	68	24	05	08	29	68	21	88	66	56	55	63
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12	38	2596	79	84	07	47	01	69	49	39	39	47
12 13	33	91	74	79	02	43	1197	65	45	35	35	44
14	27	85	69	74	1698	38	93	62	, 42	32	32	41
15	2921	2580	2264	1969	1694	1434	1189	0958	0738	0529	0329	0138
15 16	15	75	59	65	89	30	85	54	34	25 22	26	35
17	09	69	54	60	85	26	82	50	31	22	22	32
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21	85	47	34	41	67	09	66	35	17	08	09	19
22	80	42	29	36	63	05	62	32	13	05	06	16
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30	2833	2499	2188	1899	1627	1372	1130	0902	0685	0478	0280	0091
31	27	93	83	94	23	68	26	0898	81	74	77	88
32 33	21	88	78	90	19	63	23	94	78	71	74	85
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39	81	51	44	57	88	35	95	68	53	48	51	64
40	2775		2139	1852	1584	1331	1092	0865	0649	0444	0248	0061
41	70		34	48	79	27	88	61	46	41	45	58
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54	2696		75 70			74	37	14	01	0398	04	18
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### **EPHEMERIS OF PLUTO FOR 1924**

te	Long.	Dec.	December 19	12° 55 46′	20° N 41′
luary 24			Date		Dec.
oruary 23	10° 5 25′		July 22	12° 5 20′	20° N 40′
rch 24	10° 33 13′	20° N 40′	August 21	13° 5 0′	20° N 38′
ril 23	10° 5 24′	20° N 43′	September 20	13° 5 25′	20° N 36′
y 23	10° 53′	20° N 44′	October 20	13° 5 32′	20° N 36′
ne 22	11° 55 34′	20° N 43′	November 19	13° 5 18′	20° N 37′

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#### EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

January, 1924.

New Moon January 6th, 0:48 P. M., in 13 14° 57'
Longitude of the Planets

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# SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES Calculated for Mean Noon at Greenwich January, 1924.

January, 1924.

Full Moon January 22nd, 0:57 A. M., in a 0° 45'

Declination of the planets

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### EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich February, 1924.

New Moon February 5th, 1:38 A. M. in # 15° 0'

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F 15 S 16 Su 17 M 18 Tu 19	25 33 26 34 27 34 3 28 35	3 2 48 4 4 1 4 5 13 5 6 25 5 7 36	$\begin{bmatrix} 5 & 52 \\ 6 & 7 & 16 \end{bmatrix}$	24 39	19 19 18 17 17	11 19 27 35 43	17 7 17 45	17 20 23 26 30	48 46 44 43	
F 22 S 23 Su 24 M 25 Tu 26	2 2 37 3 37 4 4 38 5 5 38 6 6 38	7 11 11 7 12 22 8 13 34 8 14 48 8 15 5	1 11 35 2 13 4 4 14 33 5 16 4 6 17 35	3 12 mg 4 5 25 57 1 10 0 3 24 12 4 8 m 27 5 22 43 9 6 \$ 5	13 12 11 7 9 8 8	17 5 13 20 20 27 3 34	$\begin{vmatrix} 21 & 34 \\ 22 & 13 \\ 22 & 51 \end{vmatrix}$	40 43 47 51 51	39 37 38 1 34 1 32	
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#### SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES Calculated for Mean Noon at Greenwich

February, 1924.
Full Moon (Total Eclipse of Moon) Feb. 20th, 4:07 P. M., in my 0° 46' Declination of the planets

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#### EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

March, 1924.

New Moon (Partial Eclipse of Sun) March 5th, 3:58 P. M., in ★ 14°

# SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES Calculated for Mean Noon at Greenwich March, 1924.

Full Moon March 21st, 4:30 A. M., in  $\simeq 0^{\circ}$  18'

Declination of the planets

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### EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich
April, 1924.

New Moon April 4th, 7:17 A. M., in  $\, \gamma \,$  14° 15'

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# EPHEMERIS OF THE PLANETS' PLACES Calculated for Mean Noon at Greenwich April, 1924.

Full Moon April 19th, 2:11 P. M. in  $\simeq$  29° 14'
Declination of the planets

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9		10	17		18			25	42		52		34			21	57		45		49
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#### EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

May, 1924.

New Moon May 3rd, 11:00 P. M., in 8 13° 13'

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# SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES Calculated for Mean Noon at Greenwich May 1924

May, 1924.
Full Moon May 18th, 9:52 P. M., in m 27° 39'
Declination of the planets

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#### EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich
June, 1924.

New Moon June 2nd, 2:34 P. M., in  $\coprod$  11° 45′

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Su 8 17 M 9 18 Tu 10 19 W 11 20 Th 12 21 F 13 22	24 17 31 21 17 35 18 17 <sub>R</sub> 34 16 17 32 13 17 27	$egin{array}{c cccc} 24 & 0 \\ 5 & 25 & 12 \\ 4 & 26 & 31 \\ 2 & 27 & 49 \\ 7 & 29 & 14 \\ \hline \end{array}$	$\begin{array}{ccc} 1 & -53 \\ 15 & 43 \end{array}$	57 56 54 52 50	43 35 27 20	23 41 24 7 24 33 24 59	23 24 25 25	2 3 4 6 7	
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# SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES Calculated for Mean Noon at Greenwich June 1924

June, 1924.
Full Moon June 17th, 4:41 A. M., in \$\frac{1}{2}\$ 25\circ 42'

Declination of the planets

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#### EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich
July, 1924.

New Moon July 2nd, 5:35 A. M., in 5 10° 03'

New Moon (Partial Eclipse of Sun), July 31st, 7:42 P. M., in a 8° 1 Longitude of the Planets

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## SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES Calculated for Mean Noon at Greenwich July, 1924. Full Moon July 16th, 11:49 A. M., in 1/3 23° 39'

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#### EPHEMERIS OF THE PLANETS' PLACES

## Calculated for Mean Noon at Greenwich

August, 1924.

New Moon (Partial Eclipse of Sun) Aug. 30th, 8:37 A. M., in my 6° Longitude of the Planets

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### EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

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August, 1924. ll Moon (Total Eclipse of Moon) Aug. 14, 8:19 P. M., in 27 21° 44′ Declination of the planets

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#### EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

September, 1924.

New Moon September 28th, 8:16 P. M., in  $\Rightarrow$  5° 25'

# SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES Calculated for Mean Noon at Greenwich Sentember, 1924

September, 1924.
Full Moon September 13th, 7:00 A. M., in  $\pm$  20° 12′
Declination of the planets

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#### EPHEMERIS OF THE PLANETS' PLACES

# Calculated for Mean Noon at Greenwich October, 1924.

New Moon October 28th, 6:57 A. M., in  $\mathfrak{m}$  4° 35′

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# SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES Calculated for Mean Noon at Greenwich October, 1924.

Full Moon October 12th, 8:21 P. M., in 7 19° 14'
Declination of the planets

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#### EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich November, 1924.

New Moon November 26th, 5:15 P. M., in # 4° 12'

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# SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES Calculated for Mean Noon at Greenwich November, 1924.

Full Moon November 11th, 0:31 P. M., in 8 18° 51'
Declination of the planets

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#### EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

December, 1924.

New Moon December 26th, 3:46 A. M., in v3 4° 08'

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# SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES Calculated for Mean Noon at Greenwich December 1924

December, 1924.

Full Moon December 11th, 7:03 A. M., in II 18° 59'

Declination of the planets

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# TABLE OF PROPORTIONAL LOGARITHMS Hours or Degrees

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2 2.8573	.3660	.0720	8983	45	84	5997	30	53	44	88	75 68
3 .6812	.3590	.0685	59	28	69	85	20	44	36	80	68
4 .5563	.3522	.0649	8935	10	55	73	10	35	28	73	62
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5 2.4594		1.0614				49	5289	17	12	59	49
6 .3802	.3388	.0580	8888	74	26	37	79	08	04	52	42
7 .3133	.3323	.0546	65	57	12				4196	45	36
8 .2553	.3258	.0511	42	39	6698	25	69	4699			
9 .2041	.3195	.0478	19	22	84	13	59	,90	88	38	3323
10 2.1584	1.3133	1.0444	8796	7604	6670	5902	5249	4682	4180	<b>37</b> 30	
11 .1170	.3071	.0411	73	7587	56	5890	39	73	72	23	10
12 .0792	.3010	.0378	51	70	42	78	29	64	64	16	10
13 .0444	.2950	.0345	28	52	28	66	19	55	56	09	0.
14 .0122	.2891	.0313	06	35	14	55	09	46	49	02	329
	1.2833		8683	7518	6600	5843	5199	4638	4141	3695	329
16 .9542	2775	.0248	61	01	6587	32	89	29	33	88	8
17 .9279	.2775	.0216	39	7484	73		79	20	25	81	7
		.0185	17	67	59	09	69	11	17	74	7
18 .9031	.2663		8595	51	46		59	03	09	67	6
19 .8796	.2607	.0153						4594	4102		325
20 1.8573			8573	7434	6532		39		4094	53	5
21 .8361	.2499	.0091	52	17	19			85			
22 .8159		.0061	30	01	05			77	86	46	4
23 .7966		.0030	09	7384	6492			68	79	39	3
24 .7781	.2341		8487	68	78			59	71	32	3
25 1.7604	1.2289	0.9970	8466	7351	6465			4551	4063		322
26 .7434	.2239	.9940	45	35	51	18		42	55		2
27 .7270	.2188	.9910	24	18	38	06		34	48	11	1
28 .7112		.9881	0.3	02	25		71	25	40	04	0
29 .6960		.9852		7286	12		61	16	32	3597	0
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31 .6670	.1993	.9794	41	54					17		
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33 .6398									3995		
34 .6269											
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36 .6021		.9652							79		
37 .5902									72		
38 .5786	.1671	.9597	8199								4
39 .5673	.1627	.9570									
40 1.5563		0.9542	8159	7112	6269						313
41 .5456				7097	56						1 2
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49 .4682											
50 1.4594	1.11/0	0.9279									
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#### TABLE OF PROPORTIONAL LOGARITHMS

# Ancient and Modern Initiation

By MAX HEINDEL

PART I-The Tabernacle in the Wilderness

The Atlantean Mystery Temple—Brazen Altar and Laver-Room of Temple-Ark of Covenant-Sacred Shekinah Glory-Moon and Initiation.

PART II-The Christian Mystic Initiation

Annunciation and Immaculate Conception-Mystic Rite of tism—The Temptation—The Transfiguration—Last Supper and washing—Gethsemane, the Garden of Grief—The Stigmata and Crucifixion.

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> These magnificent Operas expound the most profound truths of God and Nature.

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Index

## ROSICRUCIAN FELLOWSHIP

Oceanside, California, U.S.A.

#### **EPHEMERIS OF PLUTO FOR 1925**

te	Long.	Dec.	Date ·	Long.	Dec.
luary 18	$12^{\circ} \stackrel{.}{\sim} 10'$ R	20° N 46′		13° 5 22′	20° N 56′
				14° 5 3′	20° N 53′
rch 19	11° 5 24′			14° 5 33′	
ril 18	11° 5 31′D	20° N 58′	October 15	14° 55 44′	20° N 49′
y 18	11° 556′	20° N 59′	November 14	$14^{\circ} \stackrel{\text{\tiny 55}}{\sim} 34'_{R}$	20° N 52′
1e 17	12° 5 36′	20° N 58′	December 14	14° 55 5′	20° N 56′

#### How Shall We Know Christ at His Coming?

By MAX HEINDEL

Explains the Western Wisdom Teachings of the Rosicrucians relato the Christ: who He is; why He came; why He must come again; I how we shall know Him.

27 Pages

Art Paper Cover

#### LETTERS TO STUDENTS

By MAX HEINDEL

For eight years Max Heindel, the mystic and occultist, sent out to students of The Rosicrucian Fellowship a letter each month filled h much valuable information, explaining the cause of many of the iculties occurring in daily life, not only of individuals but of nats as well. The path to Christian victory living is plainly marked.

255 Pages

Indexed

Cloth Bound

#### THE ROSICRUCIAN FELLOWSHIP

Oceanside, California, U.S.A.

### SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES

#### Calculated for Mean Noon at Greenwich

January, 1925

New Moon (Total Eclipse of Sun) January 24th, 2:45 P. M., in # 40

## SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES Calculated for Mean Noon at Greenwich January, 1925

Full Moon January 10th, 2:47 A. M., in 55 19° 23'
Declination of the Planets

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#### EPHEMERIS OF THE PLANETS' PLACES

#### Calculated for Mean Noon at Greenwich

February, 1925

New Moon February 23rd, 2:12 A. M., in ★ 3° 59'

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#### EPHEMERIS OF THE PLANETS' PLACES

#### Calculated for Mean Noon at Greenwich

February, 1925

Full Moon, February 8th, 9:49 P. M., in & 19° 28'

#### Declination of the Planets

24

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### SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES

### Calculated for Mean Noon at Greenwich

March, 1925

New Moon March 24th 2:03 P. M., in γ 3° 26'

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## SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES Calculated for Mean Noon at Greenwich March, 1925

Full Moon March 10th, 2:21 P. M., in my 19° 31'
Declination of the Planets

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#### EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich
April, 1925

New Moon April 23rd, 2:28 A. M., in 8 2° 26'

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## SIMPLIFIED SOMNTIFIC DPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich April, 1925

Full Moon April 9th, 3:38 A. M., in - 18° 47'
Declination of the Planets

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#### EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

May, 1925

New Moon May 22nd, 3:48 P. M., in II 1° 1'

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## SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES Calculated for Mean Noon at Greenwich May, 1925

Full Moon May 8th, 1:42 P. M., in m 17° 26'
Declination of the Planets

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#### STMPLIFTED SCENTIFIC

#### EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich
June, 1925

New Moon June 21st, 6:17 A. M., in  $\Pi$  29° 21'

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## SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich June, 1925

Full Moon June 6th, 9:48 P. M., in 1 15° 38'
Declination of the Planets

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## SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES Calculated for Mean Noon at Greenwich

July, 1925

New Moon (Annular Eclipse of Sun) July 20th, 9:40 P. M., in 5 27° 37'

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#### EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich July, 1925

Full Moon July 6th, 4:54 A. M., in 18° 36'
Declination of the Planets

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#### EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

August, 1925

New Moon August 19th, 1:14 P. M., in a 26° 1'

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### SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich August, 1925

Full Moon August 4th, 11:59 A. M., in # 11° 34'
Declination of the Planets

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#### EPHEMERIS OF THE PLANETS' PLACES

#### Calculated for Mean Noon at Greenwich

September, 1925

New Moon September 18th, 4:12 A. M., in mg 24° 45'

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### SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich September, 1925

Full Moon September 2nd, 7:53 P. M., in ★ 9° 48'
Declination of the Planets

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#### EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

October, 1925

New Moon October 17th, 6:06 P. M., in - 28° 51'

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#### EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich October, 1925

Full Moon October 2nd, 5:23 A. M., in γ 8° 29'
Full Moon October 31st, 5:17 P. M., in 8 7° 46'
Declination of the Planets

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#### EPHEMERIS OF THE PLANETS' PLACES

#### Calculated for Mean Noon at Greenwich

November, 1925

New Moon November 16th, 6:58 A. M., in m 23° 25'

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#### EPHEMERIS OF THE PLANETS' PLACES

#### Calculated for Mean Noon at Greenwich

November, 1925

Full Moon November 30th, 8:11 A. M., in II 7° 37'

#### Declination of the Planets

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#### DPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

December, 1925

New Moon December 15th, 7:05 P. M., in 2 23° 20'

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## SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES Calculated for Mean Noon at Greenwich

December, 1925

Full Moon December 30th, 2:01 A. M., in 5 7° 55'
Declination of the Planets

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8 22 17 24 19 1 8 59 34 56 21 4 5 21 56 8 26 19 48 23 5 8 6 49 8 30 21 14 25 5 4 0 51 39	6 25 16 45 28 6 25 15 45 23 6 26 18 45 28

#### TABLE OF PROPORTIONAL LOGARITHMS

Hours or Degrees													
Min. 0 1 2	3	4	5	6	7	8	9		11				
0 3.1584 1.3802 1.0792			6812	6021	5351			3802   3795	338 <b>8</b> .82				
1 3.1584  .3730  .0756	07		6798	09	41 30	62 53	44	88	75				
2 2.8573 .3660 .0720	8983	45	84	5997 85	20	44	36	80	68				
3 .6812 .3590 .0685 4 .5563 .3522 .0649	59 8935	28 10	69 55	73	10	35	28	73	62				
4 .5563 .3522 .0649 5 2.4594 1.3454 1.0614		7692	6741	5961	5300	4726	4220		3355				
6 .3802 .3388 .0580		74	26	49	5289	17	12	59	49				
7 .3133 .3323 .0546	65	57	12	37	79	08	04	52	42				
8 .2553 .3258 .0511	42	39	6698	25	69	4699	4196	45	36				
9 .2041 .3195 .0478	19	22	84	13	59	190	88	38	29 3323				
10 2.1584 1.3133 1.0444	8796	7604	<b>6</b> 670	5902 5890	5249 39	4682 73	4180 72	3730	16				
11 .1170 .3071 .0411		7587 70	56 42	78	29	64	64	16	10				
12 .0792 .3010 .0378 13 .0444 .2950 .0348		52	28	66	19	55	56	09	03				
13 .0444 .2950 .0345 14 .0122 .2891 .0313	3	35	14	55	09	46	49	02	3297				
15 1.9823 1.2833 1.0280		7518	6600		5199	4638	4141	3695	3291				
16 .9542 .2775 .0248		01	6587	32		29	33	88	84				
17 .9279 .2719 .0216	39		73			20	25	81	78				
18 .9031 .2663 .018		67	59			11	17	74	71				
19 .8796 .2607 .015			46			03 4594	09 4102	67 <b>36</b> 60	65 3258				
20 1.8573 1.2553 1.012	8573		6532 19			4594 85	4094	53	52				
21 .8361 .2499 .009			05			77	86	46	46				
22 .8159 .2445 .006 23 .7966 .2393 .003			6492			68	79	39	39				
24 .7781 .2341 1.000			78			59	71	32	33				
25 1.7604 1.2289 0.997			6465			4551		3625	3227				
26 .7434 .2239 .994			51			42		18	20				
27 .7270 .2188 .991			38			34		11	14				
.988   .7112   .2139   .988			25			25		04	08				
29 .6960 .2090 .985			12			4508		3597 3590	01 3195				
30 1.6812 1.2041 0,982								83	89				
31 .6670 .1993 .979									83				
32 .6532 .1946 .976 33 .6398 .1899 .973									76				
34 .6269 .1852 .970							3995	63	70				
35 1.6143 1.1806 0.968					3 5003			3556					
36 .6021 .1761 .965		74						49					
.5902] .1716] .962													
<b>3</b> 8 .5786 .1671 .959													
39 .5673 .1627 .957													
40 1.5563 1.1584 0.954													
41 .5456 .1540 .951 42 .5351 .1498 .948													
43 .5249 .1455 .946					1 28	4399	27		14				
44 .5149 .1413 .943				8 2	0 18		19	3495					
45 1.5051 1.1372 0.940	9 806	2 7035						3488					
46 .4956 .1331 .938	3 4												
47 .4863 .1290 .935													
48 .4771 .1249 .933													
49 .4682 .1209 .930													
50 1.4594 1.1170 0.927 51  .4508  .1130  .925					5 5								
51 .4508 .1130 .925 52 .4424 .1091 .923					5 4				59				
63 .4341 .1053 .920					4 3								
54 .4260 .1015 .917	8 789		0 609	4 1	4 2								
55 1.4180 1.0977 0.915	3 787	3 688	5 608	1 540									
56 .4102 .0939 .913	28 5	4 7		9 539									
67 .4025 .0902 .910		6 5			2 479		4 2						
58 .3949 .0865 .90		8 4						339					
59 .5875 .0828 .90	ool 0	0] 2	71 3	ol (	, .,	,		,					

#### TABLE OF PROPORTIONAL LOGARITHMS

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5	2980	2635	2315	2017	1738	1476	1229	0996	0774	0563	0361	0169
6		29	10		34	72	25	92		59	58	66
7				08	29	68		88			55	63 60
8				03	25		17	84		52	52	60
. 9		13		1998	20		13	80	59	49	48	57
10		2607	89	1993	1716		1209		0756		0345	
11		02		89	11		05	73	52	42	42	50
12 13	38	2596		84	07		01	69	49	39	39	47
13		91	74 69	79 74	02		1197	65	45	35	35	44
15		85 <b>25</b> 80			1698		93 1189	62	42	32	32	0138
16		75	59	1969 65	1694 89		85	0958	0738 34	0529 25	0329 26	75
17	09	69	54	60	85		82	54 50	31	22	22	33
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19	2897	58	44	50	76	17	74	43	24	15	16	25
20	2891	2553	2239	1946	1671	1413	1170	0939	0720	0511	0313	0122
21	85	47	34	41	67	09	66	35	17	08	09	119
22	80	42	29	36	63	05	62	32	13	05	06	16
23	74	36	23	32	58	01	58	28	09	01	03	13
24	68	31	18	27	54	1397	54	24	06	0498	00	10
25	2862	2526	2213	1922	1649	1393	1150	0920	0702	0495	0296	0107
26	56	20	08	17	45	88	46	17	0699	91	92	04
27	50	15	03	13	40	84	42	13	95	88	90	01
28	45	09	2198	08	36	80	38	09	92	85	87	0098
29	39	04	93	03	32	76	34	05	88	81	83	94
30	<b>28</b> 33	2499	2188	1899	1627	1372	1130	0902	0685	0478	0280	0091
31	27	93	83	94	23	68	26 23	0898	81	74	77	88
32	21	88	78	90	19	63	23	94	78	71	74	85
33	16	83	73	85	14	59	19	91	74	68	71	82
34	10	77	68	80	10	55	15	87	70	64	67	79
35	2804	2472	2164	1875	1605	1351	1111	0883	0667	0461	0264	0076
36 37	2798 93	67 61	59 54	71 66	01	47	07 03	80 76	64	58	61	73 70
38	93 87	56	49	62	1597 92	39	1099	72	56	54 51	58 55	67
39	81	51	44	57	88	35	95	68	53	48	51	64
40	2775	2445	2139	1852	1584	1331	1092	0865	0649	0444	0248	0061
41	70	40	34	48	79	27	88	61	46	41	45	58
42	64	35	29	43	75	22	84	57	42	37	42	55
43	58	30	24	38	71	18	80	54	39	34	39	52
44	53	24	19	34	66	14	76	50	35	31	35	48
45	2747	2419	2114	1829	1562	1310	1072	0846	0632	0428	0232	0045
46	41	14	09	25	58	06	68	43	29	24	29	42
47	36	09	04	20	53	02	64	39	25	21	26	39
48	30	03	2099	16	49	1298	61	35	21	18	23	36
49	24	2398	2095	11	45	94	57	32	18	14	20	33
50	2719	2393	2090	1806	1540	1290	1053	0828	0614	0411	0216	0030
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52	07	82	80	1797	32	82	45	21	08	04	10	24
53	02	77	75	93	28	78	41	17	04	01	07	21
54	2696	72	70	88	23	74	37	141	01	0398	04	18
55 56	2691	2367	2065	1784	1519	1270	1034	0810	0597	0394	0201	9015
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59	68	46	46	65	02	53	18	95	83	81	88	03
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## **EPHEMERIS**

1926

Also Monthly Position of Pluto

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;е	Long.	Dec.	Date	Long.	Dec.
uary 13	13° ≤ 29′	21° N 1′	July 12	14° 5 23′	21° N 10′
ruary 12	12° 56′	21° N 6′	August 11	15° 55 7'	21° N 7′
rch 14	12° 5 37′	21° N 11′	September 10	15° 5 40′	21° N 5′
ril 13	12° 5 38′	21° N 13′	October 10	15° 556′	21° N 4′
y 31	13° 5 0′	21° N 14′	November 9	15° 50′	21° N 5′
ie 12	13° 5 38′	21° N 13′	December 9	15° 5 24′	21° N 9′

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## SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES Calculated for Mean Noon at Greenwich

January, 1926

New Moon January 14th, 6:35 A. M., in 1/3 23° 1' Longitude of the Planets

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#### SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES January, 1926

January, 1926
Full Moon January 28th, 9:35 P. M., in & 8° 14'
Declination of the Planets

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## SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES

#### Calculated for Mean Noon at Greenwich

#### February, 1926

New Moon February 12th, 5:20 P. M., in 23° 16' Longitude of the Planets

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## SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES Calculated for Mean Noon at Greenwich

February, 1926

Full Moon February 27th, 4:51 P. M., in mg 8° 22'
Declination of the Planets

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# SIMPLIFIED SCIENTIFIO EPHEMERIS OF THE PLANETS' PLACES Calculated for Mean Noon at Greenwich March, 1926

New Moon March 14th, 3:20 A. M., in ★ 22° 48'
Longitude of the Planets

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## SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES Calculated for Mean Noon at Greenwich

March, 1926

Full Moon March 29th, 10:00 A. M., in = 7° 58'

Declination of the Planets

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22	54	16	49		3		11	37		35		2	16	53		26		36		20
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22	58	19	36		2	19	11	44		2		1		39	22	1		31		22
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23	6	21	49		0	45	11	42	8	31		0		24	21	32		25		23
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# SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES Calculated for Mean Noon at Greenwich

April, 1926

New Moon April 12th, 0:56 P. M., in γ 21° 52' Longitude of the Planets

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# SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES Calculated for Mean Noon at Greenwich April, 1926

Full Moon April 28th, 0:17 A. M., in m 6° 58' Declination of the Planets

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# SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES Calculated for Mean Noon at Greenwich May, 1926

New Moon May 11th, 10:55 P. M., in 8 20° 29' Longitude of the Planets

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# SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES Calculated for Mean Noon at Greenwich May, 1926

Full Moon May 27th, 11:49 A. M., in 2 5° 26'
Declination of the Planets

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# SIMPLIFIED SCIENTIFIO EPHEMERIS OF THE PLANETS' PLACES Calculated for Mean Noon at Greenwich June, 1926

New Moon June 10th, 10:08 A. M., in II 18° 46' Longitude of the Planets

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# SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES Calculated for Mean Noon at Greenwich June, 1926

Full Moon June 25th, 9:13 P. M., in 1/3 3° 32'
Declination of the Planets

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5	4	14	37	17	2		14		25	1		37		18		33		58		23
5	8	18	9	19	2		15	27	24	42		36		18		1		57		22
5	12	20	42	21	23		16	6	24	14		34		19	0	31		57		21
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# SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES Calculated for Mean Noon at Greenwich July, 1926

New Moon July 9th, 11:06 P. M., in 5 16° 56' Longitude of the Planets

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F	2	9	50	4	14	4					19					45		26		54	
S	3	10	47	5	25	5	54	23		10	19	46	26	42	12	24	29	26	22	55	
Su	4	11	45	6	36	7	8	6			19		26	38	13	3	29	26	22	57	
M			42	7	46		23	20						35	13	43	29	26		59	
Tu	6	13	39	8	57	9	33	3	П	17	19	41	26	31	14	21	29	26	23	1	
W	17	14	36	10	7	10	43	16		10	19	40	26	28	15	0	29	26	23	2	
Th	8	15	34		17		46				19	38			15	38		27	23	4	
F	9	16	31	12	28		50								16	17		R27	23	6	
S	10	17		13	39		47				19			15			29	26	23	8	
Su	11	18	25	14	50	14	45	5	N	36	19	33	26	11	17	32	29	26	23	10	
M	12	19	22	16	1	15	37	17		34	19	32	26	6	18	12	29	26	23	12	
Tu	13	20	20	17	12	16	28	29		27	19	31	26	2	18	47	29	26	23	14	
W	14	21	17	18	23	17	12	11	m	17	119	30	25	57	19	26	29	26	23	16	
Th				19	34		56				19				20		29	25		17	1
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S	17	24	9	21	56	19	11				19		25	40	21	17	29	25	23	21	
Su	18	25	6	23	7	19	39	29		25	19	27	25		21		29	24	23	23	
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Su	1		47			21				43	19	25	24	51	26	5	29	17	23	38	
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#### SIMPLIFIED SCIENTIFIC

## EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

July, 1926
Full Moon July 25th, 5:13 A. M., in 2 1° 31'
Declination of the Planets

D	S.	T.	Dec.	D	D		Э		Ş		Ř		Þ		24		ð		H	1	¥
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2	6	39	1	9	3	23	1	19		19			29		31	2	29		55		15
33	6	43	4 N	7		22	50	19		18			23		34	2	58		55		14
4	6	47	9	6		22	39	20		17			28		37	3	26		55		13
5	6	51	13	33		22	24	20		16			28		41	3	54		56		11
6	6	<b>5</b> 5	17	16		22	11	21		15			28		44		22		56		10
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7	6	59	20		15	21	37	21		14			27		52	5	16		57 58		8 6
8	7	3 7	21			21	18	21		13		ŀ	27	7.4	56 0		43		58		5
9			22	30	19	20	57	<b>2</b> 2		12 11			27	14			9 <b>3</b> 5		59.		4
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7 8 9 0	7 7 7	38 42 46 50	1 s 6 10 15	51 27 54 0	1 3 5	0 4 5 4	55 15 24	1 1 1	♀ S ′ 51 47 43	0 0	V N ' 10 54 35	0	N ' 17 16 16	0	S ' 57 57 58	0	\$ '37 38 40		S ' 46 46 46	0	N ' 24 24 24 24
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7 8 9 0 1 2 3 4 5 6	7 7 7 8 8 8 8 8	38 42 46 50 54 58 2 6 10 14	1 s 6 10 15 18 21 22 20 17	51 27 54 0 28 2 22 14 32 24	1 3 5 7 9 11 13 15 17	0 4 5 4 2 0 1 3 4 5	55 15 24 40 29 45 37 51	11111111111	\$\frac{5}{51}\$ 47 43 39 35 31 25 20 15	0 0 0 0 0 1 1	V 10 54 35 15 s 6 30 55 20 48	0	N ' 17 16 16 15 15 14 14 13 13	0	24 57 57 58 58 59 59 0 0	0	\$\frac{3}{37}\$\\ 38\\ 40\\ 41\\ 42\\ 43\\ 46\\ 47\\ 47\\ \]		\$ '46 46 46 46 46 46 46	0	N ' 24 24 24 24 24 24 24 24 24 24 24 24 24
7 8 9 0 1 2 3 4 5	7 7 7 7 8 8 8	38 42 46 50 54 58 2 6 10	1 s 6 10 15 18 21 22 22 20	51 27 54 0 28 2 22 14 32 24	1 3 5 7 9 11 13 15 17	0 4 5 4 2 0 1 3 4 5 4	55 15 24 40 29 45 37 51 17	1111111111111	\$\frac{\sqrt{51}}{47}\$ \[ \frac{43}{39} \] \[ \frac{35}{31} \] \[ \frac{25}{20} \] \[ \frac{15}{10} \]	0 0 0 0 0 1 1 2	V 10 54 35 15 s 6 30 55 20 48 16	0	N ' 17 16 16 15 15 14 14 13 13 12	0	S ' 57 57 58 58 59 0 0 1 1	0	\$\frac{3}{37}\$ \$\frac{3}{38}\$ \$40\$ \$41\$ \$42\$ \$43\$ \$46\$ \$47\$ \$48\$		S ' 46 46 46 46 46 46 46	0	N ' 24 24 24 24 24 24 24 24 24 24 24 24
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7 8 9 0 1 2 3 4 5 6 7 8	7 7 7 7 8 8 8 8 8	38 42 46 50 54 58 2 6 10 14 18	1 s 6 10 15 18 21 22 22 20 17 13	51 27 54 0 28 2 22 14 32 24 7	1 3 5 7 9 11 13 15 17 19 21	4 5 4 2 0 1 3 4 5 4 3 0	55 15 24 40 29 45 37 51 17 46 16 56	1 1 1 1 1 1 1 1 1 1 0	\$\frac{\partial}{51}\$ 47 43 39 35 31 25 20 15 10 4 58	0 0 0 0 0 1 1 2 2 3	V 10 54 35 15 s 6 30 55 20 48 16 42 11	0	N ' 17 16 16 15 15 14 14 13 12 12 11	0	2.f 5.7 5.7 5.8 5.8 5.9 5.9 0 0 1 1 2 2	0	\$\frac{3}{37}\$\\ 38\\ 40\\ 41\\ 42\\ 43\\ 46\\ 47\\ 47\\ 48\\ 49\\ 50\\ \end{array}		S ' 46 46 46 46 46 46 46 46	0	N ' 24 24 24 24 24 24 24 24 24 24 24 24
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7 8 9 0 1 2 3 4 5 6 7 8 9 0	7 7 7 7 7 8 8 8 8 8 8 8 8	38 42 46 50 54 58 2 6 10 14 18 22 26 29	1 s 6 10 15 18 21 22 20 17 13 8 2 N	51 27 54 0 28 2 22 14 32 24 7 37 50	1 1 3 5 7 9 11 13 15 17 19 21 23 25 27	4 5 4 2 0 1 3 4 5 4 3 0 1 4	55 15 24 40 29 45 37 51 17 46 16 56 54 50	1 1 1 1 1 1 1 1 1 0 0 0	\$\frac{9}{51}\\ 47\\ 43\\ 39\\ 35\\ 31\\ 25\\ 20\\ 15\\ 10\\ 4\\ 58\\ 53\\ 47\	0 0 0 0 0 0 1 1 2 2 3 3	\$\frac{\fin}}}}}}}{\frac{\fir}}}}}}{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{	0	b N'17 16 16 15 15 14 14 13 12 12 12 11 11	0	24 S'57 57 58 58 59 0 0 1 1 2 2 3	0	\$\frac{3}{37}\$ \$38\\ 40\\ 41\\ 42\\ 43\\ 46\\ 47\\ 48\\ 49\\ 50\\ 51\\ 52\\		S ' 46 46 46 46 46 46 46 46 46 46	0	N 24 24 24 24 24 24 24 24 24 24 24 24 24
7 8 9 0 1 2 3 4 5 6 7 8 9 0	7 7 7 7 8 8 8 8 8 8	38 42 46 50 54 58 2 6 10 14 18 22 26	1 s 6 10 15 18 21 22 20 17 13 8 2	51 27 54 0 28 2 22 14 32 24 7 50 59	1 3 5 7 9 11 13 15 17 19 21 23 25 27	0 4 5 4 2 0 1 3 4 5 4 3 0 1 4 5	55 15 24 40 29 45 37 51 17 46 16 56 45 0	1 1 1 1 1 1 1 1 1 0 0 0 0	\$\frac{\partial}{51}\$ 47 43 39 35 31 25 20 15 10 4 58 53 47 42	0 0 0 0 0 0 0 1 1 2 2 3 3 4 4	\$\frac{\fin}}}}}}{\frac}\frac{	0	N'17 16 16 15 15 14 14 13 12 12 11 11 10 10	0	24 S'57 57 58 58 59 0 0 1 1 2 2 3 3	0	3 37 38 40 41 42 43 46 47 47 48 49 50 51 52 53		S 46 46 46 46 46 46 46 46 46 46	0	N 24 24 24 24 24 24 24 24 24 24 24 24 24
7 8 9 0 1 2 3 4 5 6 7 8 9 0	7 7 7 7 7 8 8 8 8 8 8 8 8	38 42 46 50 54 58 2 6 10 14 18 22 26 29	1 s 6 10 15 18 21 22 20 17 13 8 2 N	51 27 54 0 28 2 22 14 32 24 7 50 59	1 1 3 5 7 9 11 13 15 17 19 21 23 25 27	0 4 5 4 2 0 1 3 4 5 4 3 0 1 4 5	55 15 24 40 29 45 37 51 17 46 16 56 54 50	1 1 1 1 1 1 1 1 1 0 0 0 0	\$\frac{9}{51}\\ 47\\ 43\\ 39\\ 35\\ 31\\ 25\\ 20\\ 15\\ 10\\ 4\\ 58\\ 53\\ 47\	0 0 0 0 0 0 0 1 1 2 2 3 3 4 4	\$\frac{\fin}}}}}}}{\frac{\fir}}}}}}{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{	0	b N'17 16 16 15 15 14 14 13 12 12 12 11 11	0	24 S'57 57 58 58 59 0 0 1 1 2 2 3	0	\$\frac{3}{37}\$ \$38\\ 40\\ 41\\ 42\\ 43\\ 46\\ 47\\ 48\\ 49\\ 50\\ 51\\ 52\\		S ' 46 46 46 46 46 46 46 46 46 46	0	N 24 24 24 24 24 24 24 24 24 24 24 24 24

## SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES Calculated for Mean Noon at Greenwich

August, 1926

New Moon August 8th, 1:49 P. M., in & 15° 15' Longitude of the Planets

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	10	23	12	15		25		1	1	19	30		48	1	8			23	57	14	59
W 4	11	20		27		41				19	31		41			29			59		56
Th 5	12	18		40		55					32		33			29		24	1		53
F   6	13	15	15	52	15	8	20	2	21	19	34	23	25	2	46	29	2	24	3		50
S   7	14	13	17	4	14	21	2	$\mathfrak{N}^2$	24	19	35	23	17	3	17	29	0	24	5		47
	15	11	18	17	13	36	14	2	21	19	36		10	3	49	28	59	24	8		43
	16		19	29	12	50	26	3	[3	19	38	23	3	4				24	10		40
Tu 10	17	6		41		10					39		<b>5</b> 5	4				24	12		37
	18	3				30				19	41	22	47			28		24	14		34
Th 12	19		23	7		55						22	40			28		24	16		31
F  13	19	58	24	20	10	25	13	4	<b>4</b> 2	19	45	22	32	6	19	28	52	24	19		28
S  14	20	56	25	33	10	1	25	4	47	19	47	22	24	6	50	28	50	24	21		25
Su 15	21	54	26	45	9	42	8	m	3	19			16		17			24	23		22
	22	51	27			31	20		35	19		22	8	7	47			24	25		18
Tu 17	23	49		11		25						22		8				24	28		15
W 18	24	47	00	,22	9 1	027	16	4	40	19	55	21	52	8				24	30		12
Th 19	25	45		37	9	37	0	13:	21	19	58	21	44					24	32		9
F  20	26	42	2	50	9	54	14	: 3	29	20	0	21	36	9	37	28	38	24	34	1	6
S  21	27	40	4	2	10	20	29		4	20	3	21	29	10	4	28	36	24	37		3
Su 22	28	38	5	14	10	52	14	<b>~~~</b>	1	20	6	21	21	10		28		24	39		0
M 23	29	36		28	11	32	29		13	20		21	13	10		28		24	41	13	57
Tu 24	0m	234	7	41	12	20	14			20		21		11		28		24	43		54
W 25	1	31	8		13	14				20		20		11		28		24	45		51
Th 26	2		10		14					20		20		12		28		24	48		48
F 27	3	27	11	22	15	22	29		10	20	21	20	43	12	31	28	24	24	50		45
S  28	4	25	12	35	16	37	13	8	15	20	25	20		12		28					41
Su 29	5	23	13	48	17	58	26		52	20	28	20	28	13		28		24	54		38
M 30	6		15			<b>2</b> 3		П	2	20	31	20	20	13		28		24	56		34
Tu 31	7	19	16	15	20	53	22		48	20	34	20	13	14	0	28	16	24	59		30

## SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES Calculated for Mean Noon at Greenwich

August, 1926

Full Moon August 23rd., 0:38 P. M., in # 29° 37'
Declination of the Planets

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#### SIMPLIFIED SCIENTIFIC

## EPHEMERIS OF THE PLANETS' PLACES Calculated for Mean Noon at Greenwich

### September, 1926

New Moon September 7th, 5:45 A. M., in my 13° 51' Longitude of the Planets

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## SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES Calculated for Mean Noon at Greenwich September 1926

September, 1926
Full Moon September 21st, 8:19 P. M., in  $\times$  28° 4
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#### SIMPLIFIED SCIENTIFIC

### EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

October, 1926

New Moon October 6th, 10:13 P. M., in - 12° 54′ Longitude of the Planets

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### SIMPLIFIED SCIENTIFIC

## EPHEMERIS OF THE PLANETS' PLACES Calculated for Mean Noon at Greenwich October, 1926

Full Moon October 21st, 5:15 A. M., in γ 27° 3' Declination of the Planets

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# SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES Calculated for Mean Noon at Greenwich

November, 1926

New Moon November 5th, 2:34 P. M., in m 12° 26' Longitude of the Planets

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# SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES Calculated for Mean Noon at Greenwich November, 1926

Full Moon November 19th, 4:21 P. M., in 8 26° 34'
Declination of the Planets

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#### SIMPLIFIED SCIENTIFIC

## EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

December, 1926

New Moon December 5th, 6:12 A. M., in 1 12° 22' Longitude of the Planets

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#### SIMPLIFIED SCIENTIFIC

## EPHEMERIS OF THE PLANETS' PLACES Calculated for Mean Noon at Greenwich

December, 1926

Full Moon December 19th, 6:09 A. M., in II 26° 35'
Declination of the Planets

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3	16	46		54	5		19	22	50	16	28	26			13	46		29		56
4	16	50		43		22	34		9	16	32	29		9	13	50		28		56
5	16	54		44	9	22	47	23	25	16	49	31		3	13	54		28		57
6	16	58	22	41	11	22	58	23	39	17	16	34	14	56	14	0		28		57
					13	23	7	23	50	17	50	37		49	14	6		28		57
7	17	2		21	15	23	15	23	57	18	28	40		42		13		27		58
8	17	6		35		23	21	24	7	19	8	42			14	20		27		58
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TABLE OF PROPORTIONAL LOGARITHMS

				Ho	urs or	Degr	ees					
Min.	0	1	2	3	4	5	6	7	8	9	10	11
	.1584	1.3802	1.0792	90311	7781	6812	6021]	5351	4771	4260]	3802	3388
1 3	.1584	.3730	.0756	07	63	6798	09	41	62	52	3795	82
	2.8573	.3660	.0720	8983	45	84	5997	30	53	44	88	75
3	.6812	.3590	.0685	59	28	69	85	20	44	36	80	68
4	.5563	.3522	.0649	8935	10	55	73	10	35	28	73	62
		1.3454		8912	7692	6741	5961	5300	4726	4220	3766	3355
6	.3802	.3388	.0580	8888	74	26	49	5289	17	12	59	49
7	.3133	.3323	.0546	65	57	12	37	79	08	04	52	42
8	.2553	.3258	.0511	42	39	6698	25	69	4699	4196	45	36
9	.2041	.3195	.0478	19	22	84	13	59	190	88	38	29
		1.3133		8796	7604 7587	6670	5902 5890	5249 39	4682 73	4180 72	3730 23	3323
11	.1170	.3071	.0411	73 51	7007	56 42	78	29	64	64	16	16 10
13	.0192	.2950	.0345	28	52	28	66	19	55	56	09	03
14	.0122	.2891	.0313	06	35	14	55	09	46	49	02	3297
			1.0280		7518	6600	5843	5199	4638	4141	3695	3291
16	.9542	.2775	.0248	61	01	6587	32	89	29	33	88	84
17	.9279	.2719	.0216	39	7484	73	20	79	20	25	81	78
18	.9031	.2663	.0185	17	67	59	09	69	īĭ	17	74	71
19	.8796	.2607	.0153		51	46		59	03	09	67	65
			1.0122		7434	6532	5786	5149	4594	4102	3660	3258
21	.8361	.2499	.0091	52	17	19	74	39	85	4094	53	52
22	.8159	.2445	.0061	30	01	05	63	29	77	86	46	46
23	.7966	.2393	.0030	09	7384	6492	52	20	68	79	39	39
24	.7781	.2341	1.0000	8487	68	78	40	10	59	71	32	33
25	1.7604	1.2289	0.9970	8466	7351	6465		5100	4551	4063	3625	3227
26	.7434	.2239	.9940	45	35	51	18	5090	42	55	18	20
27	.7270	.2188	.9910	24	18	38	06	81	34	48	11	14
28	.7112	.2139	.9881	03	02	25	5695	71	25	40	04	08
29	.6960	.2090	.9852	8382	7286	12	84	61	16	32	3597	01
			0,9823		7270	6398	5673	5051	4508	4025	3590	3195
31	.6670	.1993	.9794	41	54	85	62	42	4499	17	83	89
32	.6532	.1946		21	38	72	51	32	91	10	77	83
33	.6398	.1899	.9737	00	22	59		23	82	02	70	76
34	.6269	.1852	.9708		06	46		13	74	3995	63	70
			0.9680	8259 39	7190 74	6333		5003 4994	4466 57	3987 79	3556 49	3164
36 37	.6021	.1761 .1716	.9652 .9625	19	59	07	5596	84	49	72	42	51
37 38	.5902 .5786	1671		8199	43	6294		75	40	64	35	45
39	.5673	.1671	.9597 .9570	79	28	82		65	32	57	29	39
			0.9542		7112	6269		4956	4424	3949	3522	3133
41	.5456			40	7097	56		47	15	42	15	26
42	.5351	.1498		20	81	43		37	07	34	08	20
43	.5249	.1455		01	66	31	31	28	4399	27	01	14
44	.5149	.1413	.9435		50	18		18	90	19	3495	08
			0.9409		7035	6205		4909	4382		3488	3102
46	.4956		.9383	43	20	6193		00	74	05	81	3096
47	.4863		.9356	23	05	80	88	4890	65	3897	75	89
48	.4771	.1249	.9330	04	6990	68	77	81	57	90	68	83
49	.4682	.1209	.9305		75	55		72	49	82	61	77
	1.4594	1.1170	0.9279			6143			4341	3875	3455	3071
51	.4508			47	45	31		53	33		48	65
52	.4424			29	30	18			24		41	59
53	.4341	.1053		10	15	06			16		35	53
54	.4260	.1015			00				08		28	47
			0.9153						4300			3041
56	.4102					69					15	35
57	.4025	.0902		36					84			28
58	.3949	.0865				45					7705	22
591	.3875	.0828	.9055	00	27	33	61	80	1 00	09	3395	16

## TABLE OF PROPORTIONAL LOGARITHMS

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2 3	2998 92	,52 46	30 25	32 27	52. 47	85	37	07	81	70	68	75
4	86	41	20	22	43	81	34	0999	77	66	64	72
5	2980	2635	2315	2017	1738	1476	1229	0996	0774	0563	0361	0169
6	74	29	10	12	34	72	25	92	70	59	58	66
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### EPHEMERIS OF PLUTO FOR 1927

Date	Long.	Dec.	Date	Long.	Dec.
anuary 8	14° 5 49′R			15° 5 26′	21° N 25′
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une 7	14° 55 42′	21° N 27′	December 4	16° 55 45′	21° N 22′

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Index

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## SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES Calculated for Mean Noon at Greenwich

January, 1927

New Moon (Annular Eclipse of Sun)
January 3rd, 8:28 P. M., in 123 120 29
Longitude of the Planets

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#### SIMPLIFIED SCIENTIFIO EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

January, 1927
Full Moon January 17th, 10:27 P. M., in 5 26° 50'
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## SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES February, 1927

New Moon February 2nd, 8:54 A. M., in 22 32 Calculated for Mean Noon at Greenwich
Longitude of the Planets

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## SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich February, 1927

Full Moon February 16th, 4:18 P. M., in a 27° 0'
Declination of the Planets

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#### SIMPLIFIED SCIENTIFIC

### EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich March, 1927

New Moon March 3rd, 7:25 P. M., in ★ 12° 14'
Longitude of the Planets

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# SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES Calculated for Mean Noon at Greenwich March, 1927

Full Moon March 18th, 10:24 A. M., in my 26° 50 Declination of the Planets

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# SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES Calculated for Mean Noon at Greenwich New Moon April 2nd, 4:24 A. M., in 7 11° 27' April, 1927

Longitude of the Planets

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# SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES Calculated for Mean Noon at Greenwich April, 1927

Full Moon April 17th, 3:35 A. M., in  $\simeq 26^{\circ}$  8'
Declination of the Planets

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# SIMPLIFIED SCIENTIFIO EPHEMERIS OF THE PLANETS' PLACES Calculated for Mean Noon at Greenwich May, 1927

New Moon May 1st, 0:40 P. M., in 8 10° 9' New Moon May 30th, 9:06 P. M., in II 8° 27' Longitude of the Planets

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## SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES Calculated for Mean Noon at Greenwich

May, 1927
Full Moon May 16th, 7:03 P. M., in m 24° 55'
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## SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES

Jalculated for Mean Noon at Greenwich
June, 1927

New Moon (Total Eclipse of Sun) June 29th, 6:32 A. M., in 25 6° & Longitude of the Planets

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Calculated for Mean Noon at Greenwich June, 1927

Full Moon (Total Éclipse of the Moon)
June 15th., 8:19 A. M. in 1 23° 14'
Declination of the Planets

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Calculated for Mean Noon at Greenwich

July, 1927

New Moon July 28th, 5:36 P. M. in & 4° 38' Longitude of the Planets

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Calculated for Mean Noon at Greenwich

July, 1927 Full Moon July 14th, 7:22 P. M., in v3 21° 20' Declination of the Planets

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#### SIMPLIFIED SCIENTIFIC

#### EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

August, 1927

New Moon August 27th, 6:46 A. M., in m 3° 0' Longitude of the Planets

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F		25		24	58			21			11			15					41		
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Su	21	27	26	24	R58	15	22	18	41	1	13			17	07	2	43	26		24	
M	22	28	24	24	54	17	17	2	<b>502</b>	1	15	2	11	17				26		24	
Tu	23	29	22	24	48			15			17			18				26		24	
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#### SIMPLIFIED SCIENTIFIC

## EPHEMERIS OF THE PLANETS' PLACES Calculated for Mean Noon at Greenwich

August, 1927
Full Moon August 13th, 4:37 A. M., in 2 19° 27'
Declination of the Planets

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### Calculated for Mean Noon at Greenwich

September, 1927

New Moon September 25th, 10:11 P. M., in == 1° 51'
Longitude of the Planets

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Su		10		20		12	43			33		44			26	05			27	16		5
M		11		20	09		37			57		47			26	43			27	18		5
Tu	_	12		19	35		29					50			27	22			27	20	23	5
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S				17	10		46			18		02			29	57			27		23	
Su			45		33		32			13				€57					27			5
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F		22			34							24				50			27		23	1
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Su					30		26			59		32				08		42			23	
M		25		12	00					12		36				47			27			
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Calculated for Mean Noon at Greenwich September, 1927

Full Moon September 11th, 0:54 P. M., in × 17° 47'
Declination of the Planets

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3	10	43	14	07	3	7	50	4	10	9	64		47	1	05	2	34		12	1	53
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Ł.	10	50	21	03	7	6	21	3	35	5	57		50		17	1	31	1	08		50
5	10	54	23	15	9	5	36		11		23		52		23	0	59		06		49
3	10	<b>5</b> 8	24	21	11	4	51	2	43	2	48		53		29	0	28		05		47
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3 ]	11	22	3	37	25	0	s34	1	14	7	41		07		14	3	15		08		38
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## Calculated for Mean Noon at Greenwich October, 1927

New Moon October 25th, 3:37 P. M., in m 1° 14'
Longitude of the Planets

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W		11	15		05	2	57			16				48		18				18		
Th	6	12	14	9	14	4	18	11	.~~	50	3	55	26	41	16	58	0	59	28	19	22	
F	17	13	14	9	25	5	38	25		54	4	01	26	33	17	37	0	57		21		
S		14	13		39		57						26		18	17	1960		28			
Su	9	15	12	9	54		14			25				18		57			28	24		
M					11		30							12						26		
Tu	11					10				59				05		17				28		
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October, 1927
Full Moon October 10th, 9:15 P. M., in 7 16° 34'
Declination of the Planets

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Calculated for Mean Noon at Greenwich

November, 1927

New Moon November 24th, 10:09 A. M., in 2 1° 8'
Longitude of the Planets

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Calculated for Mean Noon at Greenwich

November, 1927
Full Moon November 9th, 6:36 A. M., in 8 15° 52'
Declination of the Planets

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#### SIMPLIFIED SCIENTIFIC

#### EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

December, 1927

New Moon (Partial Eclipse of Sun) Dec. 24th, 4:13 A. M., in V3 1° 2 Longitude of the Planets

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#### EPHEMERIS OF THE PLANETS' PLACES

SIMPLIFIED SCIENTIFIC

Calculated for Mean Noon at Greenwich December, 1927

'ull Moon (Total Eclipse of Moon), Dec. 8th, 5:32 P. M., in II 15° 3!

Declination of the Planets

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#### TABLE OF PROPORTIONAL LOGARITHMS

TABLE OF	Hou	irs or	Degre	es					
Min. 0 1 2	3	4	5	6	7	8	9 42601		11 338 <b>8</b>
	903111		6812 6798	6021	5351	4771 62		3795	.82
1 3.1584 3730 .0756 2 2.8573 3660 .0720	8983	45	84	5997	30	53	44	88	75
2 2.8573 .3660 .0720 3 .6812 .3590 .0685	59	28	69	85	20	44	36	80	68
4 .5563 .3522 .0649	8935	10	55	73	10	35	28 4220	73 3766	62 3355
5 2.4594 1.3454 1.0614		7692	6741	<b>59</b> 61 49	5300	4726 17	12	59	49
6 .3802 .3388 .0580 7 .3133 .3323 .0546	8888	74 57	12	37	79	08	04	52	42
7 .3133 .3323 .0546 8 .2553 .3258 .0511	42	39	6698	25	69	4699	4196	45	36
9 .2041 .3195 .0478	19	22	84	13	59	190	88	38 3730	29 3323
10 2.1584 1.3133 1.0444	8796	7604	<b>66</b> 70 <b>5</b> 6	5902 5890	5249	4682	4180 72	23	16
11 .1170 .3071 .0411 12 .0792 .3010 .0378	73 51	7587 70	42	78	29	64	64	16	10
12 .0792 .3010 .0378 13 .0444 .2950 .0345	28	52	28	66	19	55	56	09	03
14 .0122 .2891 .0313	06	35	14	55	09	46	49	3695	3297 3291
15 1.9823 1.2833 1.0280	8683	7518	6600 6587	5843 32	<b>51</b> 99	4638	4141	88	84
16 .9542 .2775 .0248 17 .9279 .2719 .0216	61 39	01 7484	73	20	79	20	25	81	78
17 .9279 .2719 .0216 18 .9031 .2663 .0185	17	67	59	09	69	11	17	74	71
.0153 .2607 .0153	8595	51	46	5797	59	03	4102	67 3660	65 3258
20 1.8573 1.2553 1.0122		7434	6532 19	5786 74	<b>514</b> 9 <b>3</b> 9	4594 85	4102 4094	<b>36</b> 60 53	52
21 .8361 .2499 .0091 22 .8159 .2445 .0061	52	17 01	05	63	29	77	86	46	46
22 .8159 .2445 .0061 23 .7966 .2393 .0030		7384	6492	52	20	68	79	39	39
24 .7781 .2341 1.0000	8487	68	78	40	10	59	71	32	33
25 1.7604 1.2289 0.9970	8466	7351	6465 51	5729 18	5100 5090	4551 42	4063 55	3625 18	3227
26 .7434 .2239 .9940 27 .7270 .2188 .9910		35 18		06		34		l îĭ	14
27 .7270 .2188 .9910 28 .7112 .2139 .9881		02		5695		25	40		08
29 .6960 .2090 .9852	8382	7286				16			01
30 1.6812 1.2041 0,9823		7270				4508			
31 .6670 .1993 .9794 32 .6532 .1946 .9765		54 38							83
32 .6532 .1946 .9765 33 .6398 .1899 .9733		22			23	82			1 2 2
34 6269 1852 9708	8279	06							
35 1.6143 1.1806 0.9680	8259	7190							
36 .6021 .1761 .965 37 .5902 .1716 .962		74 59							
37 .5902 .1716 .962 38 .5786 .1671 .959						40	64	35	
39 .5673 .1627 .9570		28	3 82						
40 1.5563 1.1584 0.954									
41 .5456 .1540 .951 42 .5351 .1498 .948									20
42 .5351 .1498 .948 43 .5249 .1455 .946						4399			
44 .5149 .1413 .943	5 8081	. 50	0 1						
45 1.5051 1.1372 0.940	9 8062								
46 .4956 .1331 .938 47 .4863 .1290 .935									
47 .4863 .1290 .935 48 .4771 .1249 .933					7 8	1 57	7 90		
.1209 .930	5 7985	7.	5 5						
50 1.4594 1.1170 0.927	9 7966								
51 .4508 .1130 .925 52 .4424 .1091 .922									1 59
52 .4424 .1091 .922 53 .4341 .1053 .920			_	6 2	4 3	5 1	6 5	3 3	5 53
54 .4260 .1015 .917	8 789	1 0	0 609	4 1	4 2				
55 1.4180 1.0977 0.915	3 787		5 608						
56 .4102 .0939 .913				9 <b>53</b> 9	2 479				8 28
57 .4025 .0902 .910 58 .3949 .0865 .907				5 7	2 8	9 7	6 1	7 0	1 22
59 .3875 .0828 .905				3 6	1 8	0] 6	8 0	9 339	5) 16

#### TABLE OF PROPORTIONAL LOGARITHMS

		TABL	E OF	PRU	lours	or De	TCES	OGM	VI A A I .			
Min.	12	13	14	15	16	17	18	19	20	21	22	23
0		2663	23411	20411	1761	1498]	1249	1015]		0580	0378	0185
ĭ	04	57	36	36	56	93	45	11	88	77	75	82
2	2998	52	30	32	52	89	41	07	85	73	71	79 <b>75</b>
2 3	92	46	25	27	47	85	37	03	81	70	68 64	73 72
4	86	41	20	22	43	81	34	0999	77	0563	0361	0169
5 6 7	2980	2635	2315	2017	1738 34	1476 72	1229 25	0996 <b>92</b>	0774	59	58	66
6	74	29 24	10 05	12 08	29	68	21	88	66	56	55	63
8	68 62	18	00	03	25	64	17	84	63	52	52	60
9	56	13	2295	1998	20	60	13	80	59	49	48	57
10	2950	2607	89	1993	1716	1455	1209	0977	0756	0546	0345	0153
iĭ	45	02	84	89	11	51	05	73	52	42	42	50
11 12	38	2596	79	84	07	47	01	69	49	39	39	47 44
13	33	91	74	79	02	43	1197	65	45	35	35	41
14	27	85	69	74	1698	38	93	62	0738	32 0529	32 0329	0138
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#### SIMPLIFIED SCIENTIFIC ASTROLOGY

By MAX HEINDEL

A complete textbook on the art of erecting a horoscope, making the process simple and easy for beginners. It also includes a

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#### **EPHEMERIS OF PLUTO FOR 1928**

e .	Long.	Dec.	Date	Long.	Dec.
uary 3			July 31	17° 5 15′	21° N 34′
ruary 2			August 30		21° N 31′
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#### How Shall We Know Christ at His Coming?

By MAX HEINDEL

Explains the Western Wisdom Teachings of the Rosicrucians relate to the Christ: who He is; why He came; why He must come again; how we shall know Him.

27 Pages

Art Paper Cover

#### LETTERS TO STUDENTS

By MAX HEINDEL

For eight years Max Heindel, the mystic and occultist, sent out to students of The Rosicrucian Fellowship a letter each month filled h much valuable information, explaining the cause of many of the ficulties occurring in daily life, not only of individuals but of nates as well. The path to Christian victory living is plainly marked.

255 Pages

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#### THE ROSICRUCIAN FELLOWSHIP

Oceanside, California, U.S.A.

January, 1928

New Moon January 22nd, 8:18 P. M., in # 1° 35' Longitude of the Planets

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January, 1928
Full Moon January 7th, 6:07 A. M. in 5 15° 42'
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February, 1928.

New Moon February 21st, 9:40 A. M., in ≠ 1° 31<sup>4</sup> Longitude of the Planets

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February, 1928.
Full Moon February 5th, 8:11 P. M. in & 15° 48'
Declination of the Planets

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March, 1928

New Moon March 21st, 8:29 P. M., in Υ 1:0' Longitude of the Planets

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#### Calculated for Mean Noon at Greenwich March, 1928

Full Moon March 6th, 11:27 A. M. in my 15° 40' Declination of the Planets

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April, 1928

New Moon April 20th, 5:25 A. M., in γ 29° 53' Longitude of the Planets

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Calculated for Mean Noon at Greenwich

April, 1928

Full Moon April 5th, 3:38 A. M. in  $\simeq 15^{\circ}$  7'
Declination of the Planets

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May, 1928

New Moon (Total Eclipse of Sun) May 19th, 1:14 P. M. in & 28° 1 Longitude of the Planets

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#### Calculated for Mean Noon at Greenwich May, 1928

Full Moon May 4th, 8:11 P. M., in m 14° 5'
Declination of the Planets

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June, 1928

New Moon (Partial Eclipse of Sun) June 17th, 8:42 P. M., in II 26° 21 Longitude of the Planets

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Calculated for Mean Noon at Greenwich June, 1928

Full Moon (Total Eclipse of Moon) June 3rd, 0:13 P. M. in 1 12°3

Declination of the Planets

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July, 1928

New Moon July 17th, 4:35 A. M., in 52 24° 20' Longitude of the Planets

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Calculated for Mean Noon at Greenwich

July, 1928

Full Moon July 3rd, 2:48 A. M. in v3 10° 55'
Declination of the Planets

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#### SIMPLIFIED SCIENTIFIC

#### EHPEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

#### August, 1928

New Moon August 15th, 1:49 P. M., in & 22° 27'
Longitude of the Planets

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Calculated for Mean Noon at Greenwich August, 1928

Full Moon August 1st, 3:30 P. M., in # 9° 6' Full Moon August 31st, 2:34 A. M., in # 7° 25' Declination of the Planets

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## EPHEMERIS OF THE PLANETS' PLACES Calculated for Mean Noon at Greenwich

#### September, 1928

New Moon September 14th, 1:20 A. M. in my 20° 58' Longitude of the Planets

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Calculated for Mean Noon at Greenwich

September, 1928
Full Moon September 29th, 0:42 P. M., in  $\circ$  6° 6°
Declination of the Planets

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October, 1928

New Moon October 13th, 3:56 P. M., in  $\simeq 20^{\circ}$  4' Longitude of the Planets

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# SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES Calculated for Mean Noon at Greenwich October, 1928

Full Moon October 28th, 10:43 P. M., in 8 5° 17'
Declination of the Planets

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#### SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES Calculated for Mean Noon at Greenwich

November, 1928

New Moon (Partial Eclipse of Sun) November 12th, 9:35 A. M., in m 19° 46' Longitude of the Planets

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### SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich November, 1928

Full Moon (Total Eclipse of Moon) November 27th, 9:05 A. M., in II 4° 53' Declination of the Planets

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## SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

#### December, 1928

New Moon December 12th, 5:06 A. M., in # 19° 57'
Longitude of the Planets

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## SIMPLIFIED SCIENTIFIC Calculated for Mean Noon at Greenwich December 1928

December, 1928
Full Moon December 26th, 7:55 P. M., in 55 4° 49'
Declination of the Planets

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TABLE OF PROPORTIONAL LOGARITHMS

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6 .3802	.3388	.0546	65	57	12	37	79	08	04	52	42
8 .2553	.3258	.0511	42	39	6698	25	69	4699	4196	45	36
9 2041	3195	.0478	19	22	84	13	59	.90	88	38	29
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16 .9542	.2775	.0248	61	01	6587	32		29	33	88	84
17 .9279	.2719	.0216	39	7484	73	20	79	20	25	81	78
18 .9031	.2663	.0185	17	67	59	09		11	17	74	71
19 .8796	.2607	.0153	8595	51	46			03	4102	67	65 3258
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TABLE OF PROPORTIONAL LOGARITHMS

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10	2950	2607	89 84	1993	1710	51	05	73	52	42	42	50
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13	33	91	74	79	02	43	1197	65	45	35	35	44
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#### **EPHEMERIS OF PLUTO FOR 1929**

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nuary 27	16° ≤ 53′R	21° N 46′	July 26	18° 5 19′	
			August 25		21° N 44′
arch 26	16° 5 11′	21° N 55′	September 24	19° 528′	21° N 41′
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ay 27			November 23		
ine 26	17° 5 32′	21° N 52′	December 23	18° 52'	21° N 51′

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Calculated for Mean Noon at Greenwich

New Moon January 11th, 0:28 A. M., in v3 20° 20'

January 1929.

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#### SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

January 1929.
Full Moon January 25th, 7:09 A. M., in & 4° 48'
Declination of the Planets

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#### EPHEMERIS OF THE PLANETS' PLACES

#### Calculated for Mean Noon at Greenwich

#### February, 1929

New Moon February 9th, 5:55 P. M., in 20° 33'

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### SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES Calculated for Mean Noon at Greenwich

February, 1929
Full Moon February 23rd, 6:59 P. M., in ng 4° 40'
Declination of the Planets

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#### EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

New Moon March 11th, 8:37 A. M., in ≠ 20° 18′

March, 1929.

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#### SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES Calculated for Mean Noon at Greenwich March, 1929.

March, 1929.
Full Moon March 25th, 7:46 A. M., in  $\simeq$  4° 20'
Declination of the Planets

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#### EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich New Moon April 9th, 8:33 P. M., in γ 19° 31'

April 1929.

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# SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES Calculated for Mean Noon at Greenwich April 1929.

Full Moon April 23rd, 9:47 P. M., in m 3° 12'
Declination of the Planets

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#### EPHEMERIS OF THE PLANETS' PLACES

## Calculated for Mean Noon at Greenwich May, 1929.

New Moon (Total Eclipse of Sun) May 9th, 6:07 A. M., in & 18° 08'

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Su	5	14	30						02						55	9	25	28	36		40
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# SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES Calculated for Mean Noon at Greenwich May, 1929.

May, 1929.
Full Moon May 23rd, 0:50 P. M., in 1 1° 53'
Declination of the Planets

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#### EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich
June, 1929.

New Moon June 7th, 1:56 P. M., in  $\coprod$  16° 18′

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# SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES Calculated for Mean Noon at Greenwich June, 1929.

Full Moon June 22nd, 4:15 A. M., in v3 0° 14'
Declination of the Planets

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#### EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

New Moon July 6th, 8:47 P. M., in 5 14° 14'

July, 1929.

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## SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES Calculated for Mean Noon at Greenwich

Calculated for Mean Noon at Greenwich
July, 1929.
Full Moon July 21, 7:21 P. M., in v3 28° 29'

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#### EPHEMERIS OF THE PLANETS' PLACES

### Calculated for Mean Noon at Greenwich

August, 1929.

New Moon August 5th, 3:40 A. M. in a 12° 12'

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## SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

August, 1929.
Full Moon August, 20th, 9:42 A. M., in # 26° 52'
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#### EPHEMERIS OF THE PLANETS' PLACES

September, 1929.

New Moon September 3rd, 11:47 A. M., in mg10° 28' Calculated for Mean Noon at Greenwich

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# SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES Calculated for Mean Noon at Greenwich September, 1929.

Full Moon September 18th, 11:15 P. M. in  $\times$  25° 34'
Declination of the Planets

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#### EPHEMERIS OF THE PLANETS' PLACES

## Calculated for Mean Noon at Greenwich October, 1929.

New Moon October 2nd, 10:19 P. M., in 🛥 9° 10'

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# SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES Calculated for Mean Noon at Greenwich October 1929

October, 1929.
Full Moon October 18th, 0:06 P. M., in 7 24° 37'
Declination of the Planets

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6 7 8 9 0 1 2 3 4 5 6	13 13 13 13 13 14 14 14 14	38 42 46 50 54 58 02 06 10 14	4 1 N 8 13 19 23 26 27 26 24 20	15 52 03 58 17 34 25 34 52 26	1 2 4 6 8 10 12 14 16	0 4 3 1 1 3 4 5 4	N ' 09 17 06 s12 12 36 13 56		P N ' 02 3 05 09 13 17 20 23 0 25 28 30	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	55 / 29   20   58   28   52   12   32   07   41   11	N 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	706666666666666666666666666666666666666	7.1 S ' 48 48 49 49 49 49 49 49	0	N '13 12 11 10 09 07 06 05 04 03	0	S 44 44 44 44 44 44 44 44 44	N 0 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	6 6 6 6 6 6
6 7 8 9 0 1 2 3 4 5 6	13 13 13 13 13 14 14 14 14	38 42 46 50 54 58 02 06 10 14 17	4 1 N 8 13 19 23 26 27 26 24 20	15 52 03 58 17 34 25 34 52 26 32 32	1 2 4 6 8 10 12 14 16 18	9 4 3 1 1 3 4 5 4 3 1	N ' 09 17 06 s12 12 36 13 56 41		P N ' 02 3 05 09 3 13 17 20 23 0 25 28 30 32	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	29 20 58 28 52 12 32 07 41	N 5 5 5 5 5 5 5 5 5 5 5 5	70 66 66 66 67 67 67 67 67 67 67 67 67 67	7.1 S ' 48 48 49 49 49 49 49 49 49 49	0	N 13 12 11 10 09 07 06 05 04 03 01	0	S 44 44 44 44 44 44 44 44 44 44 44 44 44	N 0 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	6 6 6 6 6 6 6 6 6 7
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6 7 8 9 0 1 2 3 4 5 6 7 8	13 13 13 13 13 14 14 14 14 14 14	38 42 46 50 54 58 02 06 10 14 17 21	4 1 N 8 13 19 23 26 27 26 24 20 15	15 52 03 58 17 34 25 34 52 26 32 32	1 2 4 6 8 10 12 14 16 18 20 22	0 4 3 1 1 3 4 5 4 3 1 0 3	N 09 17 06 812 12 36 13 56 41 36 N 56		P N ' 02 5 05 09 13 17 20 23 0 25 28 30 32 33 34 2	φ° S 33 S 11 S	55 / 229 200   558   228   552   112   332   411   111   332	N 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	770	7.1 S ' 48 48 49 49 49 49 49 49 49 49	0	N ' 13 12 11 10 09 07 06 05 04 03 01 00 01	0	S 44 44 44 44 44 44 44 44 44 44 44 44 44	N 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	66 66 66 66 66 67 77
6 7 8 9 0 1 2 3 4 5 6 7 8 9	13 13 13 13 13 14 14 14 14 14 14 14	38 42 46 50 54 58 02 06 10 14 17 21 25 29	1 N 8 13 19 23 26 27 26 24 20 15	15 52 03 58 17 34 25 34 52 26 32 32 48 41	1 2 4 6 8 10 12 14 16 18 20 22 24	9 4 3 1 1 3 4 5 4 3 1 0 3 4	N 09 17 06 812 12 36 13 56 41 36 N 56 18		P N ' 02 05 09 13 17 20 23 0 25 28 30 32 33	φ° S 3 S 3 S 1 S 1 S 1 S 1 S 1 S 1 S 1 S 1 S 1 S 1	55 / 29 / 20   58   28   52   12   32   07   41   11   32   50	N 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	706666666666666666666666666666666666666	7.1 S ' 48 48 48 49 49 49 49 49 49 49 49	0	N ' 13 12 11 10 09 07 06 05 04 03 01   s00   02	0	S 44 44 44 44 44 44 44 44 44 44 44 44 44	N 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	66 66 66 66 66 67 77
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#### EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

November, 1929.

New Moon (Annular Eclipse of Sun) November 1st, 0:01 P. M. in m 8° 35'

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	4		36		58			15			27		14	55		02		10	3	18		58
M Tu	1		36			29		28			27		14	50		44		09		19		55
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S	9	16	37		12			15			27	49			23	33		02		23	11	44
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# SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES Calculated for Mean Noon at Greenwich November, 1929.

Full Moon November 17th, 0:14 A. M, in 8 24° 12'
Declination of the Planets

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4	14		25	38	8		56			10			34			18	16		33		52
	14		27	14					49				34			18	39		33		51
6	15	01	27	32	10	17			45				35			19	01		32		51
					12		39		40				35		42	19	23		29		50
	15		26		14	18		10					36		40		44		28		50
	15		24		16			111					36			20	05		27		49
	15	13			18	19							36			20	24		26		49
0.	15		17		20	_		13		18			37			20	43		25		48
	15		12		22	20		14					37		34		02		24		48
	15	24			24		31		47				37		32	21	20		23		48
3	15	<b>2</b> 8	0		26			15					38		30		36		22		48
ŀ			1		28								38		29	21	52		22		47
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9,	15	52	27	24		0	20	1	36	1	59	0	52'	0	49	0	06	0	44	0	37
)1	15	56	27	14	2	0	s50		36		56		52		49		06		44		37
1					4	2	57		36		47		52		49		08		43		37
L	16	00	25	11	6	4	28		35		37		52		49		09		43		37
21	16	04	21	32	8	5	13		34		26		51		49		10		43		37
31	16	08	16	43	110		05		<b>3</b> 3		13		51		49		11		43		37
1	16	12		07	12	4	01		32		00		51		48		12		43		37
5	16	16	5	07	14	2	05		30	0	47		51		48		14		43		37
	16	20	1	s00			N 26		28		34		50		48		15		43		37
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	16	24	6	58	18	2	56		25												
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3	16 16	24 28		1		4			23 20	1	06 s07		50		48 48		17 18		43		38
- 7		28 32	12 17	33 32	20 22 24	4 5 4	42		23	:	06 s07 20		50 49		48 48 48		17 18 20		43		38 38
<b>)</b> '.	16	<b>2</b> 8	12 17	<b>3</b> 3	20 22 24	4 5 4	42 15		23 20 17 14		06 s07 20 33		50 49 49		48 48 48 47		17 18 20 21		43 43 43		38 38 38
<b>)</b> '.	16 16	28 32	12 17	33, 32, 43,	20 22 24	4 5 4 2	42 15 33		23 20 17		06 s07 20 33 46		50 49 49 49		48 48 48 47 47		17 18 20 21 22		43 43 43 43		38 38 38 38
<b>)</b> '.	16 16	28 32	12 17	33 32 43,	20 22 24 26 28	4 5 4 2 0	42 15 33 52		23 20 17 14		06 s07 20 33		50 49 49		48 48 48 47		17 18 20 21		43 43 43		38 38 38

#### EPHEMERIS OF THE PLANETS' PLACES

Calculated for Mean Noon at Greenwich

December, 1929.

New Moon December 1st, 4:48 A. M., in \$8° 31' New Moon December 30th, 11:42 P. M., in \$\text{13}\$ 8° 50' Longitude of the Planets

Day		G		\$		3			D			þ		24		\$		H		Ψ		3
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Tu	3	10	52			14	09						11			48		32			10	
N		11	53		30		43			10		30				32		31			10	
Th		12		27	45			0					11			16		30			10	2
e	6	13	54	29	01	18	51	11		52	0	44	10	58	13	00	7	30	3	35	10	1
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		18	59		17			13		25			10		16	40		28			10	0
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		24	04			4		24		17		53			20			27		33		4
ru 1	17	25	05		50	6	07	9	55			00			21			27		33		4
		26		14	06			24		37		07			21	51		27		32		6
Th	19	27		15		9	15	9	U			15			22	36		D28		32		6.0
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Sul	22	01/5	11	19		13		22		37		36	8		24	49		28		31		2
	23			20		15		6				43			25	34		28		30		24
Tu	24	2		21	38	17		19		13		50			26	18	7	29		29		1
	25			22	54	18	35	2	m			57			27	13		29		28		1
Th	26	4		24		20		14		32		04			27	48		29		28		
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Su	29	7		27				21		03		25				503	7	32		25		0
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## SIMPLIFIED SCIENTIFIC EPHEMERIS OF THE PLANETS' PLACES Calculated for Mean Noon at Greenwich

December, 1929.
Full Moon December 16th, 11:38 A. M. in II 24° 03'
Declination of the Planets

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2	16	43	26	50			56		45		28		38		24		22		21		47
3	16	47	27	32				18		24	01		38		22		36		20		47
	16	51	26	56			28	19			29		39		21	l	48		20		47
5	16	55	25	07	8		43		38		52		39			23			19		47
	16	59		13	10	1		20		25	09		39		17		11		19		47
					12	23	04		43		22		39		14		21		19		47
7	17	03	18	23	14	1	12	21	12		28		39		12		30		19		48
8	17	07	13	47	16		19		38		30		39		11		38		19		48
9	17	11	8	<b>3</b> 5	18		23	22	02		24		39		09		45		19		48
10	17	15	2	<b>5</b> 5	20		26		23		13		39		07		51		19		48
11	17	19	3	N 02	22		27		42	24	55		38		05		56		19		49
12	17		9		24		26		58		32		38		03	24	01		19		49
13	17	27	14	<b>5</b> 2	26		24	23	11		02		38		02		03		20		50
İ		1			28		18		21	23	27		38		00		06		21		50
14	17	31	20	05	30		11		28	22	46		38	20	58		07		21		51
15	17	35	24	14																	
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19	17	50	22	47	1	2	37	1	05		04		49	0	47	0		0	43	0	38
$20^{1}$	17	54	18	07		3	30		03		10		49		47		24		43		38
- 1		1				4	46	0	59		21		49		46		25		42		38
21	17	58	12	32	6	5	12		55		31		48		46		27		42		38
22	18	02	6	28	8	4	44		51		40		48		46		28		42		38
23	18	06	0	16		3	24		47		48		48		45		29		42		38
24	18	10	5	846	12	1	20		42		56		48		45		30		42		38
25	18	14	11	25	14	11	v 10		37	2	02		48		45		31		42		38
26	18	18	16	30	16	3	30		33		07		48		44		32		42		38
27		22	20	49			55		28		11		47		44		33		42		38
- 1		- 1			20		00		23		13		47		44		34		42		38
28	18	26	24	11	22	3	51		18		13		47		43		36		42		38
29		1	26	26		1	54		14		11		47		43		37		42		38
30	18	34		26	26	0 :	s 19		09		07		47		43		38		42		39
31		38		09		2	24		05		00		47		42		39		42		39
							01	^	041	4	CO!		APT		42		40		41		39
Į.					30	4	01	0 1	s01	1	53		47		44		10		Ari		00

### TABLE OF PROPORTIONAL LOGARITHMS Hours or Degrees

13.1584 .3580 .10.792 .9031 .7781 .6812 .6021 .5351 .4771 .4260 .3602 .3588 .3581 .2358 .0756	Min.	0	1	2	3	4	5	6	7	8	9	10	11
13.1584   3730   0.756   0.7   63   6798   0.9   41   62   52   3795   82   22.8573   3.3660   0.0720   8983   45   84   5997   30   53   44   36   80   66   4   5563   5.3622   0.649   8935   10   55   73   10   35   28   73   62   62.4594   1.3454   1.0614   8912   7692   6741   5961   5300   4726   4220   3766   3356   6   53602   3338   0.0586   8888   74   26   49   5289   17   12   59   49   49   49   49   49   49   49		3.1584	11.3802	1.07921	90311	77811			53511		42601		
22.2.8573													
3													
4   5563   5522   .0649   8935   10   55   73   10   356   28   73   62	7												
52,4694  1,3454  1,0614  8912  7692  6741  5961  5300  4726  4220  3766  3356  63,3802  3388  0.586  8888  74  26  49  6299  17  12  59  49  71  3133  3.323  0.046  65  57  12  37  79  08  04  52  42  42  45  45  65  69  4196  45  45  45  45  45  45  45  45  45  45													
6 .3802 .3388 .0546													
8													
8													
9   2041   3.195   0.0478   19   22   84   13   59   9.00   88   378   29   10   2.1584   1.3133   1.0444   8796   7604   6670   5902   5249   4682   4180   3730   3323   11   1.170   3.071   0.0411   73   7587   56   5890   39   73   72   23   16   12   0.072   3.010   0.0378   51   70   42   78   29   64   64   16   10   13   0.0444   2.950   0.345   28   52   28   66   19   55   56   90   03   14   0.0122   2.891   0.013   06   3.5   14   55   09   46   49   02   3.297   15   1.9823   1.2833   1.0280   8683   7518   6600   5843   5199   4638   4141   3695   3291   16   9.9542   2.2775   0.0248   61   01   6587   32   89   29   33   88   84   17   9.279   2.2719   0.0216   39   7484   73   20   79   20   25   81   78   18   9.031   2.663   0.185   17   67   59   09   69   11   17   74   71   19   8.796   2.607   0.153   8595   51   46   5797   59   03   09   67   65   20   1.8573   1.2553   1.0122   8573   7434   6632   5786   5149   4594   4102   3660   3258   21   8.361   2.499   0.091   52   17   19   74   39   85   4094   53   52   22   8.169   2.2445   0.061   30   01   05   63   29   77   86   46   46   46   46   46   46   46												52	
10   2.1584   1.3133   1.0444   8796   7604   6670   5902   5249   4682   4180   3730   3328   12   12   1.7170   3071   .0411   73   7587   56   5890   39   73   72   23   36   12   .0792   .3010   .0378   51   70   42   78   29   64   64   64   10   13   .0444   .2950   .0345   28   52   28   66   19   55   56   69   03   14   .0512   .2891   .0313   .06   35   14   .555   .09   46   49   02   3297   15   1.9823   1.2833   1.0280   8685   7518   6600   5843   5199   4638   4141   3695   3291   16   .9542   .2775   .0248   61   01   6587   32   89   29   33   88   84   17   .9279   .2719   .0216   39   7484   73   20   79   20   25   81   78   78   78   78   78   78   78					42		6698	25	69	4699	4196	45	36
10   2.1584   1.3133   1.0444   8796   7604   6670   5902   5249   4682   4180   3730   3323   12   12   1.170   3.071   0.411   73   7587   56   5890   39   73   72   23   36   12   0.0792   3.010   0.0378   51   70   42   78   29   64   64   64   10   13   14   0.152   2.891   0.0313   0.6   35   14   55   0.9   46   49   0.2   3297   15   1.9823   1.2833   1.0280   8683   7518   6600   5843   5199   4638   4141   3695   3291   16   .9542   .2775   0.248   61   01   6587   32   89   29   33   88   84   17   .9279   .2719   .0216   39   7484   73   20   79   20   25   81   78   78   78   78   78   78   79   79	9	.2041	.3195	.0478	19	22	84	13	59	ب90	88	38	29
11	10	2.1584	1.3133	1.0444	8796		6670	5902	5249	4682	4180		
12   0.0792   0.3010   0.3786   51   70   42   78   29   64   64   16   10   10   13   0.444   2.950   0.3456   28   52   28   66   19   55   56   69   03   14   0.0122   2.891   0.313   0.66   35   14   55   50   46   49   02   3297   15   15   1.9823   1.2833   1.0280   8683   75   18   6500   5843   51 99   4638   441   3655   329   17   79   20   2275   81   78   17   9279   2.2719   0.0216   39   7484   73   20   79   20   25   81   78   78   78   78   79   79   79   70   25   81   78   78   78   78   78   78   78												23	
13												16	
14   .0122   .2891   .0313   .066   .35   .14   .55   .09   .46   .49   .02   .3291   .031   .16   .9542   .2775   .0248   .61   .01   .6587   .32   .89   .29   .33   .88   .84   .17   .9279   .2719   .0216   .39   .7484   .73   .20   .79   .20   .25   .81   .78   .81   .9031   .2663   .0185   .17   .67   .59   .09   .69   .11   .77   .74   .71	12	0444											
15   1.9823   1.2833   1.0280   8683   7518   6600   5843   5199   4638   4141   3695   3291   16   9542   2.775   .0248   61   01   6587   32   89   29   33   88   84   17   9279   .2719   .0216   39   7484   73   20   79   20   25   81   78   18   .9031   .2663   .0185   17   67   59   09   69   11   17   74   74   71   19   .8796   .2607   .0153   8595   51   46   5797   59   03   09   67   65   20   1.8573   1.2553   1.0122   8573   7434   6532   5786   5149   4594   4102   3660   3258   22   8159   .2445   .0061   30   01   05   63   29   77   86   46   46   46   46   46   46   46	14												
16													
17   9279   2719   0216   39   7484   73   20   79   20   25   81   78   18   9031   2663   20185   17   67   59   09   69   11   17   74   71   71   71   71   72   71   72   72	10	0542											
18													
19													78
20 1.8573   1.2553   1.0122   8573   7434   6532   5786   5149   4594   4102   3660   3258     21													
21													
221 .8159	20	1.8573										<b>36</b> 60	3258
221 .8159	21	.8361	.2499	.0091	52	17		74	39	85	4094	53	52
23	22	.8159	.2445	.0061	30	01	05	63	29	77	86	46	
24       .7781       2341       1.0000       8487       68       78       40       10       59       71       32       33         25       1.7604       1.2289       0.9970       8466       7351       6465       5729       5100       4551       4063       3625       3227         27       .7270       .2188       .9910       24       18       38       06       81       34       48       11       14         28       .7112       .2139       .9881       03       02       25       5695       71       25       40       04       08         301       .6670       .1993       .9794       41       54       85       62       42       4499       17       83       89         31       .6670       .1993       .9794       41       54       85       62       42       4499       17       83       89         32       .6532       .1946       .9765       21       38       72       51       32       91       10       77       76         34       .6269       .1852       .9788       827       70       6462       29	23		.2393	.0030	09	7384	6492	52	20	68			
25   1.7604   1.2289   0.9970   8466   7351   6465   5729   5100   4551   4063   3625   3227   7270   .2188   .9910   24   18   38   06   81   34   48   11   14   28   .7112   .2139   .9881   03   02   25   5595   71   25   40   04   08   08   08   08   08   08							78						
26       .7434       .2239       .9940       45       35       51       18       5090       42       55       18       10         27       .7270       .2188       .9910       24       18       38       06       81       34       48       11       14         28       .7112       .2139       .9881       03       02       25       5695       71       25       40       04       08         29       .6960       .2090       .9852       8382       7286       12       84       61       16       32       3597       01         31       .6670       .1993       .9794       41       54       85       62       42       4499       17       83       89         32       .6552       .1946       .9765       21       38       72       51       32       91       10       77       83         33       .6398       .1889       .9737       00       22       59       40       23       82       02       70       76         34       .6292       .1852       .9708       829       7190       6333       5618       5034													3227
27       .7270       .2188       .9910       24       18       38       06       81       34       48       11       14         28       .7112       .2139       .9881       03       02       25       5695       71       25       40       04       04       04       04       03       02       25       5695       71       25       40       04       04       04       04       04       03       02       25       5695       71       25       40       04       04       08       25       70       01       28       6670       181       34       48       11       74       39       00       18       636       62       42       4499       17       83       89       31       6670       1993       99737       00       22       59       40       23       82       02       70       76       76       34       6269       1852       .9708       829       7190       6333       5618       5003       4466       3987       3556       3164       36       66021       1.761       .9665       39       74       20       07       4994       57 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>التعليف</td><td></td><td></td><td></td></t<>										التعليف			
28       .7112       .2139       .9881       03       02       25       5695       71       25       40       04       08         29       .6960       .2090       .9852       8382       7286       12       84       61       16       32       3597       019         301       .6870       .1993       .9794       41       54       85       62       42       4499       17       83       89         32       .6532       .1946       .9765       21       38       72       51       32       91       10       77       83         33       .6388       .1899       .9737       00       22       59       40       23       82       02       70       76         34       .6269       .1852       .9708       8279       06       46       29       13       74       3995       63       70         351       .1.6143       1.1806       .9680       8259       7190       6333       5618       5003       4466       3987       3556       3164         39       .5673       .1616       .9625       19       59       07       5596 <td>27</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	27												
29         .6960         .2090         .9852         8382         7286         12         84         61         16         32         3597         01           30         1.6812         1.2041         0.9823         8361         7270         6398         5673         5051         4508         4025         3590         3195           31         .6670         .1993         .9794         41         54         85         62         42         4499         17         83         89           32         .6552         .1946         .9765         21         38         72         51         32         91         10         77         83           33         .6368         .1899         .9737         00         22         59         40         23         82         02         70         76           351         .1643         1.1806         0.9680         8259         7190         6333         5618         5003         4466         3987         3556         3164           36         .6621         .1761         .9652         39         74         20         07         4994         457         79         49	20												
30 1.6812   1.2041   0.9823   8361   7270   6398   5673   5051   4508   4025   3590   3195     31													
31         .6670         .1993         .9794         41         54         85         62         42         4499         17         83         89           32         .6552         .1946         .9765         21         38         72         51         32         91         10         77         83           33         .6398         .1899         .9737         00         22         59         40         23         82         02         70         75           34         .6269         .1852         .9708         8279         06         46         29         13         74         3995         63         70           35         1.6143         1.1806         0.9680         8259         7190         6333         5618         5003         4466         3987         3556         3164           36         .6021         .1761         .9652         19         59         07         5596         84         49         72         42         22           38         .5786         .1627         .9570         79         28         82         74         65         32         57         29         39	29												
32         .6532         .1946         .9765         21         38         72         51         32         91         10         77         83           33         .6398         .1899         .9737         00         22         59         40         23         82         02         70         76           34         .6269         .1852         .9708         8279         06         46         29         13         74         3995         63         70           35         1.6143         1.1806         0.9680         8259         7190         6333         5618         5003         4466         3987         3556         3164           36         .6021         .1716         .9652         39         74         20         07         4994         57         79         49         57           38         .5786         .1671         .9597         79         28         82         74         65         32         57         29         39           401         .5663         1.1584         0.9542         8159         7112         6269         5563         4956         4424         3949         3522													
33         .6398         .1899         .9737         00         22         59         40         23         82         02         70         76           34         .6269         .1852         .9708         8279         06         46         29         13         74         3995         63         70         76           351.6143         1.1806         0.9680         8259         7190         6333         5618         5003         4466         3987         3556         3164           36         .6021         .1761         .9652         39         74         20         07         4994         57         79         49         57           37         .5902         .1716         .9625         19         59         07         5596         84         49         72         42         51           39         .5673         .1627         .9570         79         28         82         74         65         32         57         29         39           40         1.5663         1.1584         0.9515         40         7097         56         52         47         15         42         .15         26													
34         .6269         .1852         .9708         8279         06         46         29         13         74         3995         63         70           35         1.6143         1.1806         0.9680         8259         7190         6333         518         5003         4466         3987         3556         3164         90         70         4994         57         79         49         57         79         49         57         79         49         57         79         49         57         79         49         57         79         49         57         79         49         57         79         49         57         79         49         57         79         49         57         79         49         57         79         49         57         79         49         57         79         49         57         29         39         360         1.5663         1.1548         0.9515         40         7097         56         52         47         15         42         15         26         42         15         226         43         5249         1455         9462         01         66         31 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>10</td><td></td><td></td></t<>											10		
34         .6269         .1852         .9708         8279         06         46         29         13         74         3995         63         70           35         1.6143         1.1806         0.9680         8259         7190         6333         518         5033         4466         3987         3556         3164           36         .6021         .1761         .9652         39         74         20         07         4994         57         79         49         57           37         .5902         .1716         .9652         19         59         07         55p6         84         49         72         42         51           39         .5673         .1627         .9570         79         28         82         74         65         32         57         29         39           40         1.5656         .1540         .9515         40         7097         56         52         47         15         42         15         26           42         .5351         .1498         .9482         20         81         43         41         37         07         34         08         22	33	.6398	.1899	.9737	00	22	59	40	23	82	02	70	76
35 1.6143 1.1806 0.9680  8259  7190  6333  5618  5003  4466  3987  3556  3164  376  6021  .1761  .9652  39  74  20  07  4994  57  79  49  57  37  .5902  .1716  .9652  19  59  07  .5596  84  49  72  42  51  38  .5786  .1671  .9597  8199  43  6294  85  75  40  64  35  45  39  .5673  .1627  .9570  79  28  82  74  65  32  57  29  39  40  1.5663  1.1584  0.9542  8159  7112  6269  5563  4956  4424  3949  3522  3133  41  .5456  .1540  .9515  40  7097  56  52  47  15  42  26  42  .5351  .1498  .9488  20  81  43  41  37  07  34  08  20  44  .5149  .1413  .9435  8081  50  18  20  18  90  19  3495  08  45  1.5051  1.1372  0.9409  8062  7035  6205  5509  4909  4382  3912  3488  3102  46  .4956  .1331  .9383  43  20  6193  5498  00  74  05  81  3096  47  .4863  .1290  .9356  23  05  80  88  4890  65  3897  75  89  49  .4682  .1209  .9356  23  05  80  88  4890  65  3897  75  89  49  .4682  .1209  .9356  23  05  80  88  4890  65  3897  75  89  49  .4682  .1209  .9356  7985  75  55  66  72  49  82  61  77  50  1.4594  .11170  0.9279  7966  6960  6143  5456  4863  4341  3875  3455  3071  51  .4508  .1130  .9254  47  45  31  45  53  33  68  48  65  53  .4424  .1091  .9228  29  30  18  35  44  24  60  41  55  53  .4341  .1053  .9203  10  15  06  24  35  16  53  35  54  4260  .1015  .9178  7891  00  6094  14  26  08  46  28  47  55  1.4180  1.0977  0.9153  7873  6885  6081  5403  4817  4300  3838  3421  3041  56  .4102  .0939  .9128  54  71  69  5393  08  4292  31  15  35  57  .4025  .0902  .9104  36  56  57  82  4799  84  24  08  28  58  .3949  .0865  .9079  18  41  45  72  89  76  17  01  22	34	.6269	.1852		8279	06	46	29	13	74	3995	63	
36         .6021         1.761         .9652         39         74         20         07         4994         57         79         49         57           37         .5902         .1716         .9625         19         59         07         5596         84         49         72         42         21           38         .5786         .1671         .9597         8199         43         6294         85         75         40         64         35         45           39         .5673         .1627         .9570         79         28         82         74         65         32         57         29         39           401.5663         .1540         .9515         40         7097         56         52         47         15         42         15         26         42         .5351         .1498         .9488         20         81         43         41         37         07         34         08         20           43         .5249         .1413         .9435         8081         50         18         20         18         90         19         3495         0         44         .5149         .1413<	35	1.6143	1.1806	0.9680	8259	7190	6333	5618	5003	4466	3987	3556	
37         .5902         .1716         .9625         19         59         07         5596         84         49         72         42         51           38         .5786         .1671         .9597         1899         43         6294         85         75         40         64         35         45           39         .5673         .1627         .9570         79         28         82         74         65         32         57         29         39           40         1.5663         1.1584         0.9542         8159         7112         6269         5563         4956         424         3949         3522         3133           41         .5456         .1540         .9515         40         7097         56         52         47         15         42         15         26           43         .5249         .1455         .9462         01         66         31         31         28         4399         27         01         14           44         .5149         .1413         .9435         8081         50         18         20         18         90         19         3495         08	36		.1761	.9652		74							
38       .5786       .1671       .9597       8199       43       6294       85       75       40       64       35       45         39       .5673       .1627       .9570       79       28       82       74       65       32       57       29       39         40       1.5656       .1540       .9515       40       7097       56       52       47       15       42       15       26         42       .5351       .1498       .9488       20       81       43       41       37       07       34       08       20         43       .5249       .1415       .9462       01       66       31       31       28       4399       27       01       14         44       .5149       .1413       .9435       8081       50       18       20       18       99       19       3495       08         451       .5051       1.1372       .9409       8062       7035       6205       5509       4909       4382       3912       3488       3102         46       .4956       .1331       .9334       43       20       6193       5498													
39         .5673         .1627         .9570         79         28         82         74         65         32         57         29         39           40         1.5663         1.1584         0.9542         8159         7112         6269         5563         4956         4242         3949         3522         3133           41         .5456         .1540         .9515         40         7097         56         52         47         15         42         15         26           42         .5351         .1498         .9488         20         81         43         41         37         07         34         08         20           43         .5249         .1455         .9462         01         66         31         31         28         4399         27         01         14           44         .5149         .1413         .9435         8081         50         18         20         18         90         19         3495         08           45         1.5051         1.1372         .9409         8062         7035         6205         5509         4909         4382         3912         3488 <td< td=""><td></td><td></td><td>1671</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>			1671										
40 1.5663   1.1584  0.9542   8159   7112   6269   5563   4956   4424   3949   3522   3133   41   .5456   .1540   .9515   40   7097   56   52   47   15   42   15   26   42   .5351   .1498   .9488   20   81   43   41   37   07   34   08   20   43   .5249   .1455   .9462   01   66   31   31   28   4399   27   01   14   44   .5149   .1413   .9435   8081   50   18   20   18   90   19   3495   08   45   1.5051   1.1372   0.9409   8062   7035   6205   5509   4909   4382   3912   3488   3102   46   .4956   .1331   .9383   43   20   6193   5498   00   74   05   81   3096   47   .4863   .1290   .9356   23   05   80   88   4890   65   3897   75   89   48   .4771   .1249   .9330   04   6990   68   77   81   57   90   68   83   49   .4682   .1209   .9305   7985   75   55   66   72   49   82   61   75   50   1.4594   1.1170   0.9279   7966   6960   6143   5456   4863   4341   3875   3455   3071   51   .4508   .1130   .9254   47   45   31   45   53   33   68   48   65   652   .4424   .1091   .9228   29   30   18   35   44   24   60   41   59   53   .4341   .1053   .9203   10   15   06   24   35   16   53   35   53   54   .4260   .1015   .9178   7891   00   6094   14   26   08   46   28   47   55   .4102   .0939   .9128   54   71   69   5393   08   4292   31   15   35   57   .4025   .0902   .9104   36   56   57   82   4799   84   24   08   28   58   .3949   .0865   .9079   18   41   45   72   89   76   17   01   22   30   30   30   30   30   30   30			1627										
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43       .5249       .1455       .9462       01       66       31       31       28       4399       27       01       14         44       .5149       .1413       .9435       8081       50       18       20       18       90       19       3495       08         45       1.5051       1.1372       0.9409       8062       7035       6205       5509       4909       4382       3912       3488       3102         46       .4966       .1331       .9383       43       20       6193       5498       00       74       05       81       3096         47       .4863       .1290       .9350       04       6990       68       77       81       57       90       68       83         49       .4682       .1209       .9305       7985       75       55       66       72       49       82       61       77         50       .4594       .11170       0.9279       7966       6960       6143       5456       4863       4341       3875       3455       3071         61       .4508       .1130       .9224       47       45       31													
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### TABLE OF PROPORTIONAL LOGARITHMS Hours of Degrees

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